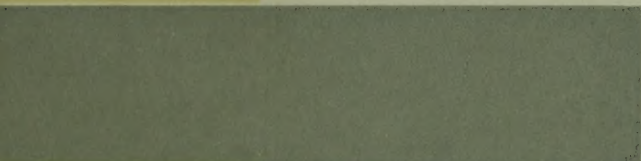


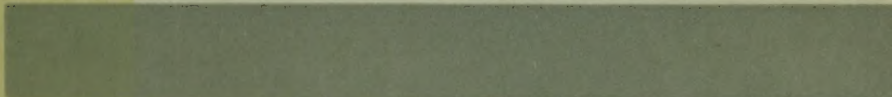
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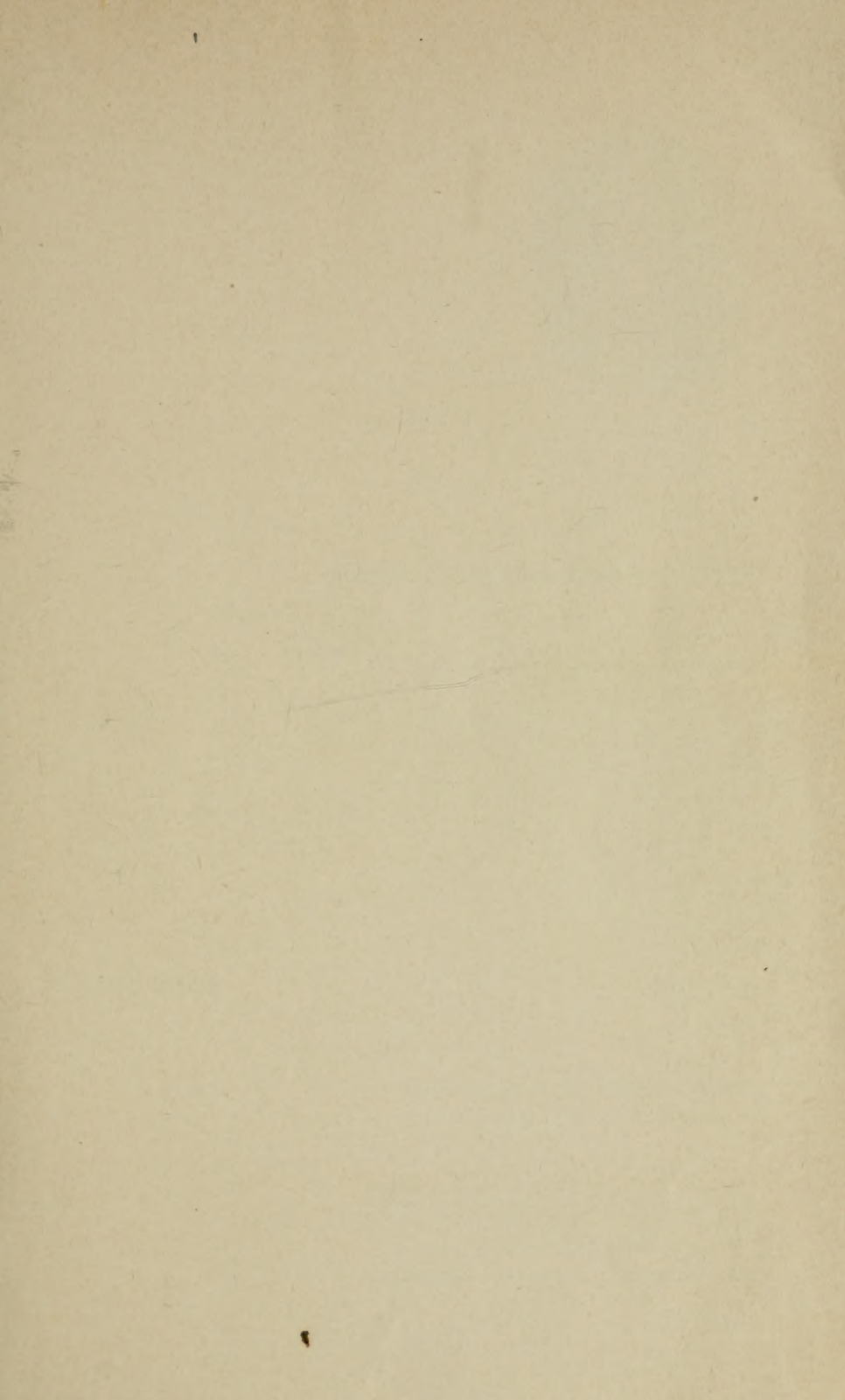
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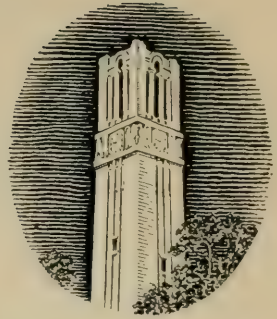
GENERAL CATALOG

NORTH CAROLINA STATE COLLEGE


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NORTH CAROLINA STATE COLLEGE RECORD





NORTH CAROLINA STATE COLLEGE

OF

THE UNIVERSITY OF NORTH CAROLINA

CATALOG ISSUE

1958-1960

ANNOUNCEMENTS FOR SESSIONS 1960-1961

AND 1961-1962

Published monthly by the North Carolina State College of Agriculture and Engineering. State College Station entered as second-class matter October 16, 1917, at the post office at Raleigh, N. C. Under the act of AUGUST 24, 1912.

VOLUME 60 NUMBER 1 SEPTEMBER, 1960

NORTH CAROLINA STATE COLLEGE OF AGRICULTURE
AND ENGINEERING

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ESTABLISHED 1887

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THE CONSOLIDATED UNIVERSITY OF NORTH CAROLINA

OFFICERS OF ADMINISTRATION

(General Administrative Officers at Chapel Hill)

BY ACT OF THE GENERAL ASSEMBLY OF 1931 THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL, THE NORTH CAROLINA COLLEGE FOR WOMEN AT GREENSBORO, AND THE NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING AT RALEIGH WERE CONSOLIDATED INTO THE UNIVERSITY OF NORTH CAROLINA.

The administrative officers of The University of North Carolina are:

William Clyde Friday, B.S., LL.B., LL.D., President

William Donald Carmichael, Jr., S.B. Comm., Vice President and Finance Officer

Donald Benton Anderson, B.A., B.Sc. Ed., M.A., Ph.D., Vice President for Graduate Studies and Research

(Position Vacant), Provost

Alexander Hurlbutt Shepard, Jr., A.B., M.A., Business Officer and Treasurer

The Vice President and Finance Officer has general administrative responsibilities and is specifically concerned with the development programs of the University, the presentation of University budget requests to the several agencies of state government, the Escheats Fund, and relationships with national foundations and agencies of the federal government.

The Vice President for Graduate Studies and Research, working with the University Graduate Executive Council and the three Deans of the Graduate School, has the responsibility for the coordination of the graduate offerings and research programs of the University.

The Provost of the University is responsible for the coordination of the undergraduate programs of the University, the general extension programs, educational television, admissions policies, and academic personnel policies including promotion and tenure regulations.

The Business Officer and Treasurer has the responsibility of over-all supervision of the preparation of the University budget requests and the expenditure of authorized budgets. This officer is also responsible for the administration within the University of those enactments of the General Assemblies that relate to the classification of personnel under the State Personnel Act.

Each of these officers and the Chancellors of the component institutions are responsible to the President as the principal executive officer of the University of North Carolina.

NORTH CAROLINA STATE COLLEGE OF AGRICULTURE AND ENGINEERING

OFFICERS OF ADMINISTRATION

CHANCELLOR John Tyler Caldwell, B.S., M.A., Ph.D., LL.D.,
"A" Holladay Hall

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110 Holladay Hall

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E. W. Glazener, Director of Instruction, 111 Patterson Hall
R. L. Lovvorn, Director, Agriculture Experiment Station, 105 Patterson Hall
Charles W. Williams, Administrative Officer, 101-B Patterson Hall
D. S. Weaver, Director, Agricultural Extension Service, 104 Ricks Hall

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SCHOOL OF EDUCATION J. B. Kirkland, Dean, 119 Tompkins Hall

SCHOOL OF ENGINEERING J. H. Lampe, Dean, 229 Riddick Building
R. G. Carson, Jr., Director of Instruction, 232 Riddick Building
N. W. Conner, Director, Engineering Research, 124 Riddick Building
W. C. Bell, Director, Industrial Experimental Program, Old Ceramic Building

SCHOOL OF FORESTRY R. J. Preston, Dean, 162 Kilgore Hall

SCHOOL OF GENERAL STUDIES Fred V. Cahill, Jr., Dean, 103 Peele Hall

**SCHOOL OF PHYSICAL SCIENCES
AND APPLIED MATHEMATICS** Arthur Clayton Menius, Jr., Dean, Riddick Building
Corev G. Mumford, Assistant to the Dean, Riddick Building

SCHOOL OF TEXTILES M. E. Campbell, Dean, 101 Nelson Building
W. A. Newell, Research Coordinator, 107 Nelson Textile Building

GRADUATE SCHOOL Walter J. Peterson, Dean, 145 Gardner Hall

WUNC-TV Roy J. Johnston, Director of Television
Charles A. Idol, Engineer in Charge

LIBRARY H. C. Brown, Librarian, D. H. Hill Library

COLLEGE EXTENSION E. W. Ruggles, Director, College Extension Division, 118 1911 Building

STUDENT AFFAIRS James J. Stewart, Jr., Dean, 101 Holladay Hall

ADMISSIONS AND REGISTRATION K. D. Raab, Director, Holladay Hall

STUDENT ACTIVITIES B. C. Talley, Jr., Director, 206 Holladay Hall

RELIGIOUS PROGRAMS O. B. Wooldridge, Jr., Director, Y.M.C.A.

MUSIC ACTIVITIES R. A. Barnes, Director, 102 Pullen Hall

COLLEGE UNION G. O. T. Erdahl, Director, College Union

STUDENT HOUSING N. B. Watts, Director, 207 Holladay Hall

DEPARTMENT OF COUNSELING Lyle B. Rogers, Director, 201 Holladay Hall

STUDENT HEALTH SERVICE J. J. Combs, College Physician, Clark Hall

MILITARY TRAINING Air Force ROTC, Col. Robert C. Paul, 145 Coliseum
Army ROTC, Col. L. W. Merriam, 154 Coliseum

INTERCOLLEGIATE ATHLETICS Roy B. Clogston, Athletics Director and Director of Coliseum,
102 Coliseum

DEVELOPMENT AFFAIRS L. L. Ray, Director of Development and Foundations,
"A" Holladay Hall

H. W. Taylor, Director of Alumni Affairs, Alumni Building

Rudolph Pate, Director of News Bureau, Watauga Hall

BUSINESS AFFAIRS J. G. Vann, Business Manager, 105 Holladay Hall

W. L. Fleming, Director of Married Student Housing

John D. Wright, Director of Accounting and Budgets, Holladay Hall

John C. Williams, Purchasing Agent, 1911 Building

J. M. Smith, Director of Maintenance and Operations, College Engineer,
Morris Building

James S. Fulghum, Jr., Supervisor of Dormitory Rentals, 4 Holladay Hall

A. S. Sutherland, Director of Dining Halls, Leazar Dining Hall

L. L. Ivey, Manager of Student Stores, Y.M.C.A. Building

COLLEGE CALENDAR, 1960-62

FALL SEMESTER, 1960

September 12	Monday	General Faculty Meeting.
September 12-14	Monday-Wednesday	New Student Orientation.
September 15	Thursday	Freshman Registration.
September 16	Friday	Upperclassman Registration. Late registration fee of \$5.00 payable by all who register after September 16th.
September 16-17	Friday-Saturday	Continuation of new student orientation.
September 19	Monday	Classes begin—8:00 a.m.
September 23	Friday	Last day for registration. Last day for refund less \$5.00 registration fee.
September 30	Friday	Last day to add a course.
October 7	Friday	Last day to drop a course without failure.
November 12	Saturday	Mid-term reports.
November 23	Wednesday	Thanksgiving holidays begin—1:00 p.m.
November 28	Monday	Classwork resumes 8:00 a.m.
November 29	Tuesday	Last day to withdraw from school without failures.
December 17	Saturday	Christmas holidays begin at 12:00 noon.
January 3, 1961	Tuesday	Classwork resumes 8:00 a.m.
January 21	Saturday	Last day of classes.
January 23-28	Monday-Saturday	Final Examinations.
January 30	Monday	Awarding of degrees for graduating students.

SPRING SEMESTER, 1961

February 2	Thursday	Orientation of new students.
February 3	Friday	Registration.
February 6	Monday	Classes begin 8:00 a.m.
February 10	Friday	Last day to register. Last day for refund less \$5.00 registration fee.
February 17	Friday	Last day to add a course.
February 24	Friday	Last day to drop a course without failure.
March 25	Saturday	Mid-term reports.
March 29	Wednesday	Easter holidays begin at 6:00 p.m.
April 6	Thursday	Classwork resumes 7:45 a.m.
April 8	Saturday	Last day for withdrawing from school without failures.
May 27	Saturday	Last day of classes.
May 27	Saturday	Commencement.
May 29-June 3	Monday-Saturday	Final examinations.

SUMMER SESSIONS, 1961

First Session

June 12	Monday	New student orientation and testing.
June 13	Tuesday	Registration for regular session. Late registration fee of \$5.00 payable by all registering after June 13.
June 14	Wednesday	First day of classes.
June 19	Monday	Last day for registration. Last day to withdraw with refund and last day to drop any course with refund.
June 23	Friday	Last day to drop courses without failure and last day to withdraw without failure.
July 4	Tuesday	Holiday
July 19	Wednesday	Last day of classes.
July 20	Thursday	Final examinations.

Second Session

July 20	Thursday	New student orientation and testing.
July 21	Friday	Registration. Late registration fee of \$5.00 payable by all registering after July 21.
July 24	Monday	First day of classes.
July 28	Friday	Last day for registration. Last day to withdraw with refund and last day to drop any course with refund.
August 2	Wednesday	Last day to drop courses without failure and last day to withdraw without failure.
August 24	Thursday	Last day of classes.
August 25	Friday	Final examinations.

FALL SEMESTER, 1961

September 11	Monday	General Faculty Meeting
September 11-13	Monday-Wednesday	New Student Orientation
September 14	Thursday	Freshman Registration
September 15	Friday	Upperclassman Registration. Late registration fee of \$5.00 payable by all who register after September 15.
September 15-16	Friday-Saturday	Continuation of New Student Orientation.
September 18	Monday	Classes begin—8:00 a.m.
September 22	Friday	Last day for registration. Last day for refund less \$5.00 registration fee.
September 29	Friday	Last day to add a course.
October 6	Friday	Last day to drop a course without failure.
November 11	Saturday	Mid-term reports.
November 22	Wednesday	Thanksgiving holidays begin—1:00 p.m.
November 27	Monday	Classwork resumes 8:00 a.m.
November 28	Tuesday	Last day to withdraw from school without failures.
December 16	Saturday	Christmas holidays begin at 12:00 noon.
January 2, 1962	Tuesday	Classwork resumes 8:00 a.m.
January 20	Saturday	Last day of classes.
January 22-27	Monday-Saturday	Final Examinations.
January 29	Monday	Awarding of degrees for graduating students.

SPRING SEMESTER, 1962

February 1	Thursday
February 2	Friday
February 5	Monday
February 9	Friday
February 16	Friday
February 23	Friday
March 24	Saturday
April 6	Saturday
April 18	Wednesday
April 26	Thursday
May 26	Saturday
May 27	Sunday
May 28-June 2	Monday-Saturday

Orientation of New Students.
Registration.
Classes begin 8:00 a.m.
Last day to register. Last day for refund less \$5.00 registration fee.
Last day to add a course.
Last day to drop a course without failure.
Mid-term reports.
Last day for withdrawing from school without failures.
Easter holiday begins at 6:00 p.m.
Classwork resumes 7:45 a.m.
Last day of classes.
Commencement
Final examinations.

Its (N. C. State's) general purpose is to so teach the principles and application of the sciences, illustrating sound theory by daily practice, as to make of its students useful and successful men, instead of mere intelligent drones.

Alexander Quarles Holladay
President, 1889-1899





MEMORIAL TOWER

NORTH CAROLINA STATE COLLEGE

I. GENERAL INFORMATION

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NORTH CAROLINA STATE COLLEGE

ITS HERITAGE — — — — —

North Carolina State College is a community dedicated to the pursuit of inquiries into the nature of the world and man, and to the training of students in understanding and participating in such inquiries. Founded by legislative act of March 7, 1887, it is the State's technological institution of higher learning and Land Grant College.

Vitally important to the establishment of the College was the growing sentiment in North Carolina at that time to make the State more self-sufficient economically and less "dependent on the North for technical experts and manufactured articles of daily use." Further impetus was provided by the fact that although the Morrill Land Grant Act of 1862 authorized the use of public land or its equivalent in land scrip for the creation of an agricultural college in each state, North Carolina had not established such a specialized institution.

The North Carolina College of Agriculture and Mechanic Arts opened its doors for the first time on October 3, 1889, welcoming 45 students to a faculty of six teachers and to a campus of one building, one stable, two mules, one horse, and a 60-acre farm on which most of the students could "work out" their education. The first president was Colonel Alexander Q. Holladay, for whom the first building was later named.

In 1931, the General Assembly formed the Consolidated University of North Carolina, taking in the University at Chapel Hill, State College at Raleigh, and the Woman's College at Greensboro. Since consolidation, State College has developed rapidly to meet the growing industrial needs of North Carolina and the increasing interest in scientific agriculture within its borders.

Following World War II, when college personnel and facilities were involved primarily in the national defense effort, State College witnessed a tremendous expansionary movement. Returning service men nearly tripled any previous enrollment, and today's student body has stabilized at twice the pre-war level. A much expanded building program has provided more than fifteen million dollars in augmented physical facilities, so that State College today is one of the best-housed and best-equipped technical schools in the nation. Through these expanded operations, State College has grown in size and service to the people of North Carolina and in prestige throughout the nation and the world for its diverse programs in teaching, research and extension services. Now in its 69th year of service, the College has a regular enrollment averaging 6,000 in a \$35 million plant, on a campus of 72 major buildings, seven schools, 48 departments, with a teaching staff of nearly 600 and a total staff of nearly 2,000, including administrative, extension, and research personnel across the State.

Students at State College can be justly proud of its rich heritage, including the well-trained alumni who are helping to build a better world by applying their technical knowledge to the variety of social problems that occur to men living in groups. Their important contributions range from building bridges over giant chasms to designing and constructing homes and buildings which are pleasant, comfortable and harmonious with modern ways of living; from building dams and power plants which permit irrigation and give light and power to millions, to teaching farmers all that science has learned about agriculture; from clothing the civilized world in the finest and most durable raiment the textile industry can produce to preserving and replanting our forests; from building highways throughout the land to creating new magic in chemistry and ceramics; from developing and conserving our natural resources to extending the frontiers of knowledge about all these matters through research projects.

ITS SERVICES AND DIVISIONS

The major objective of North Carolina State College is to provide an opportunity for students to obtain the highest level of scientific and technical training and, at the same time, the broad general education which is a basic prerequisite to specialization. The College has taken the position that man is first a citizen and then a specialist. He must be able to participate as a full-fledged member in the life of the community and to make informed judgments about the great variety of problems which the citizen faces. In working toward this broad objective, State College is organized into seven main instructional divisions: School of Agriculture, School of Design, School of Education, School of Engineering, School of Forestry, School of General Studies, and School of Textiles.

With the exception of the School of General Studies, each of these divisions offers numerous curricula leading to baccalaureate degrees. These curricula are explained in detail in Part III of this bulletin. In addition, through its Graduate School, the College offers advanced degrees: Master or Master of Science in various departments of the Schools of Agriculture, Education, Engineering, Forestry and Textiles; Doctor of Philosophy in certain curricula in Agriculture, Engineering, and Forestry. The School of General Studies works with all State College students in the areas of the liberal arts. It is that part of State College especially concerned with helping the student to understand the nature of man, the ideas and institutions which he has built and which in turn have helped to shape his nature, the relation between him and his fellows, and the world in which he lives.

Other divisions of the College are the Agricultural Experiment Station, The College Extension Division, The Agricultural Extension Service, and The Institute of Statistics. Allied agencies with headquarters on the campus include the United States Bureau of Mines Regional Laboratories; the state office of the Agricultural Stabilization and Conservation Administration; and offices of the State center of the United States Department of Agriculture.

The services of State College reach the citizenry of the state through six principal ways: (1) resident instruction; (2) off-campus instruction in established courses through the College Extension Division; (3) off-campus demonstration through the Agricultural Extension Service; (4) special instruction in technical institutes; (5) industrial and agricultural research—both basic and applied; and (6) direct contact with the home through the media of radio and television. All of the research and instruction at State College are keyed to problems in the economic and cultural life of the State and region, and seek to extend the agricultural and industrial development of the whole area.

ITS CAMPUS

In the broadest sense, the campus of North Carolina State College extends, through its services, to the boundaries of the State and beyond into the whole southern region. But the focal center of these widespread activities is the college campus in Raleigh, the State's historic capital city, where students have access to a rich reservoir of art treasures, library facilities, churches, and other cultural assets.

Adjoining the central campus at Raleigh are the college farms. In addition to these holdings in the Raleigh area, the State College Experiment Station operates a number of forest farms in every climatic and geographical area of the state, and the School of Forestry has large holdings of experimental woodlands in the Coastal Plain, the Piedmont, and the mountain regions of North Carolina.

Recent building additions to the main campus include two new dormitories, eleven new and four renovated teaching, research-extension build-

ings, a new library, Reynolds Coliseum, a modern College Union, and a nuclear reactor for the development of peacetime atomic research. The State College campus has grown from colonial and classical architecture on the old or east campus to the latest expression in modern architecture on the new or west campus. Good examples of the traditional east campus are Holladay and Pullen. Good examples of the modern west campus are the College Union and Burlington Laboratory.

Of the buildings, new and old, a few deserve special mention.

The Memorial Tower . . . a 116-foot campanile of white Mount Airy granite, designed by William Deacy, begun by alumni in 1921 as a monument to the 33 State College men who lost their lives in World War I, expanded in 1937, and completed in 1949.

Andrew Johnson House . . . birthplace (1808) of the 17th President of the United States, a tiny, gambrel-roof frame structure, removed from original site on Fayetteville Street to Pullen Park, and in 1937 moved here (admission on application to keeper).

Holladay Hall . . . oldest building on campus, once the total college plant, now completely remodeled inside, housing central administration.

The YMCA . . . a traditional landmark in the heart of the old campus, serving the religious and social life of the college, recently remodeled and dedicated The E. S. King Religious Center.

William Neal Reynolds Coliseum . . . one of America's largest indoor stadiums, seating 12,500 for sports events and more for stage events using the floor, attracting nation-wide basketball games, ice-shows, agricultural meetings, symphonies, variety shows, and lecturers.

Burlington Laboratory . . . home of the Nuclear Reactor, which has attracted national attention as first nuclear pile to be used entirely for teaching and research, first to be operated on any college campus as a non-AEC reactor, first to be open for public inspection.

College Union . . . one of nation's most modern student-faculty activities centers, with a main lounge, cloak room, snack bar, dining room, 2 private banquet rooms, ballroom, self-operating elevator, several telephones, direct telegraph connection, TV sets, Quiet Room, library game room, barber shop, 160-seat theater, private rooms with a private balcony, 7 meeting rooms, and hobby shop.

Clark Infirmary and Leazar Dining Hall . . . modern buildings, well-equipped for their services to the student body.

Other points of interest . . . are the modern greenhouses accompanying Williams, Gardner, and Kilgore halls; Animal Disease Laboratory, Pulp and Paper Laboratory, Nelson School of Textiles, Riddick Engineering Laboratories, Brooks Hall (a union of traditional and contemporary architecture), and TV Studios along Western Boulevard.

Now under construction is a fine new gymnasium designed to replace the antiquated Frank Thompson Gym, and a completely modern classroom building, close to the library and the student center of the campus.

May it (N. C. State) rejoice in work, not dreaming dreams but doing deeds.

May it ennoble toil, abolish drudgery, harness nature to human service, and create for all mankind larger and better health, wealth, comfort, and happiness!

May its mission in life, its achievements in education, its brilliant guiding star be the wise words of the sacred seer: "There is nothing better than that a man should rejoice in his work."

George Tayloe Winston
President, 1899-1908





II. REGULATIONS AND PROCEDURES FOR STUDENTS

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ADMISSION REQUIREMENTS — — — — —

First, an application form must be submitted. These forms, which indicate completely what information is required, may be obtained from and should be submitted to:

Director of Admissions
Holladay Hall
North Carolina State College
Raleigh, North Carolina

Applications for admission will be considered between **February 1 and September 1** for the fall semester; and between **October 1 and January 1** for the spring semester. For admission of Graduate Students, see the special catalog of the Graduate School which may be obtained from:

Dean of the Graduate School
Gardner Hall
North Carolina State College
Raleigh, North Carolina

Courses of study at North Carolina State College assume the entering student has competence in oral and written expression, efficient study and reading skills, the mathematical skills normally gained in secondary school instruction, and broad preparation in approved fields of study. By action of the Board of Trustees students entering any unit of the Consolidated University must take entrance examinations as prescribed from year to year. Information concerning these tests can be secured from the Office of Admissions.

The College enrolls undergraduate students in four classifications: regular (degree-seeking students); special (no college credit); unclassified (may be changed subsequently to regular status using credits earned while unclassified); and auditor (no credit).

To be admitted to a department as a regular, degree-seeking student, freshmen must submit a certificate of graduation from an accredited high school or, in the case of graduation from a non-accredited high school, pass a special entrance examination. Regular, degree-seeking transfer students must present official transcripts of work taken at other institutions. Detailed regulations which apply in all cases are discussed in the following paragraphs and should be examined carefully by the prospective student.

ADMISSION BY CERTIFICATE OF GRADUATION — — — — —

The applicant should be (a) at least 16 years of age; (b) of sound moral character; and (c) the graduate of an accredited high school. He should present at least 15 units of completed high school work, 8½ of which are distributed as follows:

English (or English and Speech)	4 units (see below)
Mathematics	2½ to 4 units (see below)
History and Social Science	1 or 2 units (see below)
Natural Science	1 or 2 units

The remainder of the 15 units will be accepted from other courses, except that not more than one unit will be accepted from activity courses such as physical education, music, band, or military science.

ENGLISH COMPOSITION

All students entering North Carolina State College for the first time are tested for their proficiency in using the English language. Students deficient in this area are required to take a special non-credit course in English composition and to make satisfactory progress in the work before taking the regular credit course in English. This remedial work may be taken in summer school prior to the entering semester, by correspondence, or may be taken as an evening course at additional cost. Students who make high

marks on this examination and who demonstrate unusual proficiency in special written exercises may be excused from taking the regular credit course in English composition. Instead, they receive credit for the course and proceed to advanced courses.

Foreign students who do not have a satisfactory command of English are required to take special courses in English for Foreign Students until they are skillful enough in the language to continue their work.

MATHEMATICAL PREPARATION

Since mathematics is of such great importance in present-day technical curricula, State College requirements are somewhat rigorous in this area of the student's preparation. One and one-half units of algebra and one unit of plane geometry are considered minimum preparation for all curricula. Students presenting only one unit of algebra or no plane geometry must take special non-credit courses to meet these deficiencies. Courses scheduled to meet deficiencies in these areas will not carry college credit. Registration in regular college courses in mathematics will be delayed until this work is completed. Students in Engineering, Design, Agricultural Engineering, Agricultural and Biological Chemistry, and Mathematics Education are required to present solid geometry for admission. A special non-credit course is offered for applicants who have not taken the work in high school. All deficiencies in mathematics may be removed by attending the summer sessions prior to regular enrollment, by correspondence or may be removed by taking evening courses at additional cost. No student may begin his regular work in mathematics until deficiencies are removed. It is wise for the student planning to enter any of these curricula to make every effort to complete required courses in mathematics in high school before applying to State College, or to take them in summer school, or by correspondence, at the College prior to entering as a freshman in the fall.

HISTORY AND POLITICAL SCIENCE

If the student does not offer American History for admission, he must complete one semester of American History or American Government as part of his college program. If he is officially registered for the course, he will receive college credit for it. Foreign students are required to complete a course in American History before graduation.

— — — — — ADMISSION BY SPECIAL EXAMINATION

Students who have been graduated from non-accredited high schools and mature students who have not completed high school work may qualify for acceptance as students working for a degree by passing entrance examinations. These examinations will cover approximately the work expected of regular high school graduates.

— — — — — ADMISSION AS A MATURE SPECIAL STUDENT

Mature students who do not wish to work for a degree may be admitted to the college in this category upon recommendation of the Dean of the school concerned and upon submission of satisfactory records of education and experience. The usual college entrance requirements may be waived for mature students, but regular college rules of scholarship will apply after admission. The special student may not represent the College in any inter-collegiate contest or become a member of any fraternity, professional or social.

— — — — — ADMISSION AS AN UNCLASSIFIED STUDENT

Admission as an unclassified student requires the recommendation of the Dean of the school in which the student wishes to enroll. Unclassified students must meet the same requirements as regular students and must

adhere to the rules and regulations of the College. If at a later date an unclassified student wishes to change to regular status, his credits must be evaluated for his major. Credits earned by the student while he is unclassified will be accepted only if he has completed the proper prerequisites. Where credit is allowed, the student will receive the grades he earned in the courses accepted for credit.

ADMISSION BY PRESENTING EVIDENCE OF CREDIT EARNED FROM ANOTHER ACCREDITED INSTITUTION OF HIGHER LEARNING — — —

All students who transfer to State College from other colleges must present official transcripts of work taken at the other institutions. A complete separate, official transcript must be sent directly to the Admissions Office from each institution attended. The prospective transfer student must be eligible to return to the institution last attended. The student's record, if of average grade or above, will be evaluated by the Dean or Director of Instruction of the School in which the student wishes to register. A \$2.00 transcript evaluation fee, payable to the Office of Registration, is charged for this service. Evaluation by the school will be final. Students whose records show below average work cannot be admitted to State College unless such admission is approved by the Admissions Committee. Failure of the student to present transcripts from all colleges previously attended may result in his dismissal from College.

ADMISSION AS AN AUDITOR — — — — —

Students who wish to audit courses must obtain the permission of the instructor and department head and register through the Office of Registration. The participation of auditors in class discussion or in tests or examinations is optional with the instructor. Auditors receive no credit for the course; they are, however, expected to attend classes regularly.

RESIDENCE — — — — —

State College is unable to accept all the out-of-state applicants for admission. By trustee action, the College can accept only highly qualified out-of-state students. The administration has ruled that all students whose parents have not been domiciled in North Carolina for more than six months immediately preceding the day of their first enrollment in the institution shall be termed out-of-state students, with the following exceptions:

- Students twenty-one years of age at the time of their first matriculation who have resided in North Carolina for more than one year, other than by virtue of attendance at another college or temporary military assignment, preceding the day of their first enrollment.
- Children of regular employees of the Federal Government stationed in the State of North Carolina; and
- Children of regular employees of the Federal Government who are employed outside of the State, but who through law are permitted to retain their North Carolina citizenship.

The furnishing of incomplete or incorrect information regarding residence may result in the student's dismissal from college.

The Registration Office determines each student's residence status on the basis of existing information and interpretation of regulations. Appeals from such classification may be made to the Consolidated University Administration on forms obtainable from the Registration Office.

GRADES AND SCHOLARSHIP — — — — —

North Carolina State College operates on a credit-point system. Semester credits represent the number of hours of work completed; quality points are determined by the grades earned.

A	Excellent	4 quality points for each credit hour.
B	Good	3 quality points for each credit hour.
C	Average	2 quality points for each credit hour.
D	Passing	1 quality point for each credit hour.
F	Failing	0 quality point for each credit hour.

Inc. Incomplete

Abs. Absent from examination

EXPLANATIONS

At the discretion of the teacher, a student who has at least a C average in a course may be given an **incomplete** grade for work not completed because of a serious interruption in the student's work not caused by his own negligence. An incomplete grade must be made up during the next semester the student is in residence, unless the department involved is not able to allow the make-up. In this latter case, the department will notify the student and the Office of Registration when the incomplete must be made up. Any incomplete not removed during the period specified by the department will automatically become a failure and will be recorded as "F".

A grade of "Fa" is recorded for an unexcused absence from examination. If an absence from examination is excused, the student must take the examination during the next semester he is in residence or a grade of "Fa" will be recorded.

A grade of "Fd" is posted if a student has unofficially dropped a course for which he has been scheduled, or if he had officially dropped after the final date for dropping courses without failure. A failure may be made up only by repeating the subject. Such a repeat course must be regularly scheduled on the student's roster.

NOTE: Any student who fails a course within two semesters of graduation and who fails only one course during that semester may apply to the Office of Registration for permission to remove that failure by standing for reexamination on the total subject matter of the course.

If a senior fails more than one course during the semester and removes all but one of these deficiencies by repeating the course or courses, and if he has not had another reexamination, he may apply at the end of his last semester in residence for permission to take a reexamination.

When such a reexamination is taken to remove an "F", only the reexamination will be counted. And a senior who has passed a reexamination will have his grade for this course changed from "F" to "R", which is equivalent in quality points to a grade of "D". A fee of \$5.00 will be charged for such a reexamination.

During the first two years of residence at this institution and the summer sessions immediately following (or until 65 semester hours have been earned in residence and/or by transfer), students may repeat courses passed for the purpose of improving their understanding of the basic subject matter. Such a repeat must be made in the next subsequent semester in which the course is offered. When a course is repeated, both grades will be considered in the college scholarship standards. Thereafter a student may repeat a course previously passed only by auditing the course. At the student's request, the teacher may allow an auditor full participation in all class activities. Courses audited will count the same as credit courses in computing a student's academic load, except for veteran benefits.

Students progress from one class to a higher class after they have completed the required number of hours for the higher classification. At the present time students are classified at the beginning of the fall semester and at no other time.

In addition to the thirty semester hours of earned credit and the 1.5 scholastic average, a student in the School of Engineering must have earned a minimum grade of "C" on MA 102 to be eligible to roster courses taught by the School of Engineering above the freshman level.

Freshman	1-29 semester hours of earned credit
Sophomore	30-64 semester hours of earned credit
Junior	65-99 semester hours of earned credit
Senior	100 or more semester hours of earned credit
Professional (School of Design)	140 or more semester hours

At the end of his freshman year, a student must have an over-all 1.5 average (1½ times as many quality points as total hours carried) to be eligible to continue. A freshman must meet this requirement by the end of the summer after he has completed two full semesters (not necessarily both in one school year or at this institution.)

At the end of his sophomore year, and each succeeding year, a student must have an over-all 2.0 average (twice as many quality points as total hours carried) to be eligible to continue. A student must meet this requirement for the first time by the end of the summer after he has completed four full semesters (not necessarily all in two school years). A transfer student (with or without credit) who has attended some other college as much as two semesters must meet this requirement the first summer after he completes two semesters at this institution. Credits and points transferred from other institutions are considered in the application of this rule.

Any student who falls below a 1.5 average for the work scheduled for any semester will be placed on scholastic probation, and will have his course load for the succeeding semester regulated by his Dean or Director of Instruction. A student is scholastically eligible for graduation when he has satisfied all the specific requirements of his department, the School, and the College, and has at least a C average, twice as many quality points as total credit hours taken.

Any student carrying 14 or more semester hours must pass at least 6 hours his first semester and 8 hours each semester thereafter. Students carrying less than 14 hours must pass at least half the work in order to continue.

TUITION AND FEES — — — — —

Charges for tuition and fees vary according to (1) the student's status as a resident or non-resident of North Carolina at the time of his first enrollment; (2) type of student (regular undergraduates, special or unclassified undergraduate, auditor or graduate student); and (3) to a minor degree the curriculum in which the student is enrolled.

An application for admission must be accompanied by an application fee of \$10. This fee is refunded to students whose applications are denied. It is forfeited by applicants who are accepted but who do not enroll.

Tuition and fees are payable in advance each semester, prior to registration day, upon receipt of a statement from the College Cashier (students desiring to do so may pay monthly installments.) All charges are subject to change without notice, but the charges in effect currently are as follows:

Regular Undergraduate Students:

School	In-State Students		Out-of-State Students	
	First Semester	Second Semester	First Semester	Second Semester
Agriculture	\$149	\$142	\$326	\$317
Design	148	142	323	317
Education:				
Agricultural Education	149	142	314	317
Others	146	140	321	315
Engineering	148	142	323	317
Forestry	158	142	333	317*
Textiles	148	142	323	317

*Add \$10 if not registered in first semester.

Late Registration Fee—All students, graduate and undergraduate, who fail to register on dates scheduled must pay a \$5.00 late registration fee.
Undergraduate Students Taking Less than 7 Hours:

Undergraduate students taking one course of not more than 4 hours during a regular semester will be charged one-fourth tuition, one-fourth academic fees and no non-academic fees. These students will not be entitled to any of the services and privileges provided by the non-academic fees. Undergraduate students taking 5 or 6 hours during a regular semester will be charged one-half tuition, one-half academic fees and all non-academic fees. All other undergraduate students will pay full tuition and fees.

Auditors:

Subject to academic regulations regularly enrolled undergraduate students may audit courses without additional charge. Those not regularly enrolled, or registering for audits only, will pay the rates applicable to undergraduate students.

Graduate Students:

Applicants interested in graduate work may receive a schedule of fees upon application to the Graduate School.

Commencement fee:

A fee of \$9, covering cost of diploma and rental of cap and gown, is charged candidates for the baccalaureate degree during the last semester before the degree is awarded.

Deposits:

(a) As partial security for military uniforms, library books, laboratory equipment, etc., a general deposit of \$20 is required to be paid by regularly enrolled undergraduate students at the time of their first enrollment (see also under "Refunds").

(b) Certain departments are allowed to collect small deposits in addition to the general deposit referred to above, for such things as room keys, lockers, etc. In such instances departmental regulations will apply.

Staff:

Full-time staff members may register for one course at a flat rate of \$15 per semester. This payment does not include non-academic fees, and none of the privileges attendant upon the payment of such fees are allowed.

Audits:

Subject to academic regulations, regularly enrolled graduate or undergraduate students may audit courses by registering for them. The first audit will be disregarded in determination of course load on which tuition and fee payments are based, but any additional audits are to be added to the course load at full credit hour value. Students registered for audits only will pay the rates applicable to special or unclassified students. Full-time staff members may register for and audit one course per semester without charge.

Professional students in engineering:

Students in the various fifth-year professional curricula described on pages 130-131 of catalog will be charged on same basis as "Special and Unclassified Students."

Thesis preparation:

Graduate students who have completed course requirements and are in residence for thesis work only will be charged \$15 per semester for tuition, plus all non-academic fees. Graduate students not in residence who have completed all requirements for the degree sought except for the thesis will be required to register for the term in which final requirements for the degree are to be completed and pay \$15 tuition fee.

Degree Only:

Graduate Students who have completed all requirements for the degree sought are required to register for the term in which the degree will be awarded and pay a tuition fee of \$10.

ROOM RENT — — — — —

Rooms in the college dormitories rent for \$85 per person per semester. In addition, the student must include with his remittance a deposit of \$2 for his room and mail box keys. This deposit will be refunded when the keys are returned to the Dormitory Rental Office. Janitorial service is furnished but each student must provide his own linens, blankets and pillow. Dormitory room applications are for the period of a school year and the rent is payable in advance prior to the beginning of each semester as announced. When a new student is accepted by the college, he is sent a letter of clearance together with a dormitory room reservation request form. If he wishes to reserve a dormitory room, he should fill out the reservation request and return it with his remittance. Rooms will be assigned in the order in which payment of rent is received. Individual preferences as to location of room and/or choice of roommate will be complied with as far as possible. *All reservations are subject to published dormitory rules and regulations.* Male freshman students are required to live in the college dormitories unless living with parents or relatives.

BOARD — — — — —

Meals are served cafeteria style, and the cost depends upon the individual student. Average cost would be approximately \$500 per year.

BOOKS AND SUPPLIES — — — — —

The cost for books and supplies is variable, depending upon the curriculum in which the student is enrolled. A reasonable estimate would be \$75 per year, but students who have to buy drawing supplies and slide rules have an additional original outlay. All books and supplies are paid for in cash as purchased.

ESTIMATED ANNUAL COST — — — — —

Total expenses of a full-time student from North Carolina, exclusive of clothing, pocket money, travel, and other incidentals, need not exceed \$1,100. Out-of-state students will need an additional \$350.

PAYMENT SCHEDULE — — — — —

Tuition and fees are payable in advance each term, on registration day. Students desiring to do so may pay on an installment basis. A service charge of \$2 per semester is made for this arrangement.

LATE REGISTRATION — — — — —

Registration schedules are set for specific days, and certain definite procedures are outlined. A student has not completed registration until all the required steps are taken. All students, graduate and undergraduate, who fail to register on dates scheduled must pay a \$5.00 late registration fee.

TUITION AND FEES

A student who withdraws from school on or before the last day for registration will receive a refund of the full amount paid, less a \$5 registration fee. On withdrawal later than the period specified, no refund will be made.

ROOM RENT

REFUND OF ROOM RENT will be made if reservation is cancelled:

- a. PRIOR to the first day of the registration period, the rent paid will be refunded less the \$10 reservation fee.
 - b. DURING the registration period, the rent paid will be refunded less the \$10 reservation fee OR a charge of \$1 per day (whichever amount is greater) from the first day of the registration period (or date of reservation, whichever is later) to date of cancellation.
 - c. AFTER the last day for registration, NO REFUND will be made for any reason other than WITHDRAWAL from College.
- CANCELLATION OF RESERVATIONS MUST BE MADE IN PERSON OR IN WRITING TO THE SUPERVISOR OF DORMITORY RENTALS, ROOM 4, HOLLADAY HALL, N. C. STATE COLLEGE. RALEIGH, N. C.

GENERAL DEPOSIT

The general deposit is refunded when a student has completed the requirements for a degree or has dropped out of school. The student must apply to the Business Office for the refund. Refund will be made by check within 30 days after the application is received.

REFUND COMMITTEE

In some instances circumstances justify the waiving of rules regarding refunds. An example might be withdrawal from school because of illness. Students have the privilege of appeal to the Refund Committee when they feel that special consideration is merited. Applications for such appeals may be secured from the Division of Student Affairs.

STUDENT ACTIVITIES AND SERVICES

State College makes every effort to provide the student with surroundings which are pleasant and conducive to intellectual growth. Respecting the student as an individual, the college assures him the maximum of personal liberty within the limits necessary for orderly progression of class work and consistent with respect for the rights of others. In return, he is expected to pay serious attention to his purpose in attending college and to observe rules of conduct consistent with maturity. Through the various services and activities identified with everyday life on the campus, as well as through the several extracurricular organizations and functions, the student at State College has an excellent opportunity for acquiring experience in group leadership and community living which he may take with him into his professional career.

As the student progresses in his development, especially after his freshman year, he will find many opportunities to increase his growth in citizenship by participating in the activities of his academic class and of the student body in general. Following is a survey of the various activities at State College.

STUDENT GOVERNMENT AND HONOR SYSTEM

When he enters State College, the student becomes a member of a self-governing community.

Legislative, executive and judicial authority, insofar as student affairs are concerned, rest with the Student Government which operates within the framework of over-all college Administration. The Student Government members and Judicial Department members are elected in campus-wide elections. The student has a voice in his own government by participating in these elections. Often in general elections he is asked to vote on proposed changes in regulations which affect the student body or on changes in the Student Government constitution.

The student also becomes part of an Honor System which expects him to adhere to its general aims: honesty in class work and honor in general conduct.

CLUBS AND SOCIETIES — — — — —

Through the various honorary, professional and technical, and social organizations at State, the interested students find many opportunities to participate in activities that appeal to them and to meet others who have similar interests.

College Honorary

Golden Chain—Senior leadership

Blue Key—Junior leadership

Thirty-and-Three—Sophomore leadership

Phi Eta Sigma—Freshman scholarship

Phi Kappa Phi—Scholarship, Juniors, Seniors and Graduate Students

Professional and Technical

Each school at State College sponsors or supervises a large number of professional and technical societies and clubs. Students in every area of instruction are encouraged to join with their fellow students in pursuing their common interests. Many of these organizations contribute greatly to the student's professional and social growth.

Social Fraternities

Eighteen national social fraternities have chapters at State College. Each has two representatives on the Interfraternity Council, which has as its objectives promoting the general interests and welfare of the associated fraternities and insuring cooperation between them in their relations with the faculty, the student body and the public in general.

STUDENT PUBLICATIONS — — — — —

State College has a large number and variety of publications, both general and School-sponsored, edited and managed by student officers, with faculty members serving as advisers. Any student who wishes to may gain journalistic experience and training in writing, editing or managing regular journals and annuals.

The three general publications, **The Agromeck**, **The Student Broadcasting System**, and **The Technician** are supported in large part by a publication fee, which is a part of each student's fees.

The Agromeck is the College Yearbook, providing a record of the classes and of the principal events of the school year. It recalls in pictures the varied activities of the student body throughout the year. **The Agromeck** is published for the entire student body under the sponsorship of the senior class.

Although it is not a "publication" in the strictest sense of the word **The Student Broadcasting System**, a carrier-current station with coverage limited to the campus, serves the same function though a different medium. It offers many opportunities for extra-curricular training in actual broadcasting techniques as well as training in administration and program planning.

The Technician is the student newspaper, issued twice a week and delivered to the dormitories and fraternity houses. Students living off campus receive their copies of the newspaper by mail. **The Technician** serves as a forum for student expression as well as a medium for news of particular interest to State College students. Each student receives a copy of **The Tower**, the College handbook, which contains detailed information about student regulations, organizations and activities.

Several of the Schools have their own publications, which are published under the general supervision of the particular School and deal with material of special interest to students in that School.

These publications include **The Agriculturist**, published by the School of Agriculture; **The Pi-ne-tum**, published by the School of Forestry; **The**

Southern Engineer, published by the School of Engineering; **The Textile Forum**, published by the School of Textiles; and the **Publications of the School of Design**.

ATHLETICS

In addition to voluntary programs of intramural and intercollegiate sports, State College requires freshmen and sophomores to enroll in credit courses in physical education.

INTRAMURAL

The college maintains an extensive program of intramural sports which is administered by the Department of Physical Education. Participation in these sports is purely voluntary; it does not receive college credit. Competition in thirteen sports is engaged in by dormitory and fraternity leagues.

Sports used in the intramural program are correlated with those used in the required class work in physical education. Instruction in the sports is given in the classes, and opportunity for competition is provided in the intramural program. Winners in these competitions are awarded cups, shields and trophies. An Intramural Advisory Board composed of representative students assists the director of the intramural program.

For intramural competition as well as for classes in physical education, Frank Thompson Gymnasium has a swimming pool, a large playing area for basketball, an auxiliary gymnasium with three handball courts, a room for wrestling, a locker room and showers. Several fields are provided for intramural and recreational play. Six semi-hard-surface and nine hard-surface courts are available for tennis, with additional courts contemplated. A new two million dollar gymnasium has been authorized and should be in use by 1960.

INTERCOLLEGIATE

Intercollegiate athletics at State College come under the supervision of a separate department of the college; policies governing intercollegiate competition are recommended, however, by the Athletic Council, composed of faculty, students and alumni, in full accord with Atlantic Coast Conference rules of eligibility for intercollegiate contests. Membership of the Atlantic Coast Conference comprises, in addition to State, Duke, Wake Forest, the University of North Carolina at Chapel Hill, Maryland, Clemson and South Carolina.

The program in intercollegiate athletics consists of the organization and training of "Wolfpack" teams in football, basketball, baseball, track, cross-country, wrestling, swimming, tennis, golf, soccer, fencing and rifle competition.

Facilities for intercollegiate athletics at State include Riddick Stadium, a 20,000-seat stadium for football; William Neal Reynolds Coliseum, a 12,000-seat arena for basketball; four football practice fields, 15 tennis courts, a 25-yard swimming pool in Frank Thompson Gymnasium; and facilities in the Coliseum for wrestling, fencing and other sports.

MUSIC

Since the early days of North Carolina State College its musical organizations have played an important place in the life of the campus. These groups present concerts, furnish music for official College functions and perform at athletic events.

The combined membership of these organizations constitutes the largest voluntary student organization on campus.

The Men's Glee Club performs several concerts each year both on and off the campus. In addition to these concerts this group makes appearances on television, radio, tours and provides small ensemble music for special occasions.

The Symphonic Band, The Fanfare Band, The Marching Band and the R.O.T.C. Band make up the four divisions of the N. C. State Bands. Each Band serves a specific purpose in the musical life of the campus. Assignments to the various Bands are made according to the interests and ability of the individual student.

The Symphonic and Fanfare Bands are concert organizations. Students who are unable to meet the rigid requirements for Symphonic Band are eligible to try for the Fanfare Band.

The Marching Band operates primarily during football season and is widely known for its spectacular half-time performances.

The R.O.T.C. Band consists of freshman and sophomore ROTC and AFROTC students. Participation in band eliminates the student from all ROTC drill on the field.

The Chapel Choir is a special group selected from the Glee Club which provides music for the weekly service in the Danforth Chapel.

The student who spends a great deal of time studying finds music to be a very stimulating activity. Participation in music helps the student maintain a healthy attitude toward college and toward life in general. Rehearsal schedules have been carefully arranged to avoid conflicts with other classes or with study time.

Additional information about music activities can be obtained by writing or visiting the Director of Music in Pullen Hall at any time.

STUDENT CENTERS — — — — —

Students at State College find that a great deal of their extracurricular activity centers around two buildings, the College YMCA and the College Union. The YMCA has long served the College as a religious center. The College Union has provided State College students with entertainment and with opportunities and facilities for recreation and relaxation. The building offers to both students and faculty a variety of features. On the ground floor are a snack bar, a small dining room, game rooms, a barber shop and free telephones. The main floor has an assembly and ballroom, a library, lounges, a gallery area for exhibits, and facilities for two small dining rooms. The second floor contains the College Union offices, a photographic darkroom, guest rooms, a quiet room, a room for listening to music, a theatre, a workshop, meeting rooms, and student organization offices.

The College Union serves a great many purposes. Its most obvious function is to provide a center where students can have fun and meet their friends. Through its widely varied program, however, it serves a deeper function—by introducing the student to the art of leisure-time living and by providing opportunities for leadership. Further, the College Union provides a showcase where students may display their talent in the form of exhibits, workshops, and entertainment which they have produced. Each student is invited to work on one of the College Union committees and to take an active part in the Union program.

In addition to the functions and activities housed in the College Union Building, many other activities, especially those of a religious, spiritual and devotional nature, are sponsored by the State College YMCA and are held within its facilities. It offers to the students an attractive lobby equipped with writing and reading tables and comfortable chairs, a television room, and four conference rooms where student and faculty groups may meet.

The Danforth Chapel provides a place for religious services and meditation for all faiths.

The YMCA plans social events and lectures on various topics related to student life in addition to, or in connection with, its programs of religious emphasis.

LIBRARY — — — — —

The D. H. Hill Library was designed to accommodate all the varied functions that a modern college library must perform. It provides shelves for

400,000 volumes, seats for 900 readers, private studies and conference rooms, and well-lighted, ventilated reading rooms. Ample book stacks are provided to accommodate a fast-growing book collection, facilities for photoprinting and micro-filming are available, and the service and reading areas of the library make a welcome and satisfactory working center for the students and faculty of the college.

The book collection itself strongly reflects the teaching and research requirements of State College—that is to say it is primarily scientific and technological. There is available, nevertheless, a fine and well-selected collection of books and materials on every phase of cultural interest as well as for recreational reading. At the present time the collection numbers over 180,000 volumes. Over 2,600 journals are received currently, and over 3,000,000 documents are held resulting from the depository status which the college library holds for publications of the Federal Government.

In the attractive lobby of the building there is arranged a collection of books for recreational reading. Students may explore this area as they please and check out the books of their choice. The big West Reading Room, colorful, well-lighted and interesting, is an invitation to study, and on the top floor is a special smaller study open to the students who prefer to work in a more secluded place. For the graduate students there are desks and private lockers in the stacks and adjoining the ground floor stacks, a large and pleasant room where faculty members and graduate students may work. In addition to these facilities, there are several conference rooms open to any college groups requesting them, and rooms which can be temporarily assigned to faculty members. The Library is a place for work, for acquiring technical knowledge; it can also be a place for discovering all the wealth of pleasure and of widened understanding which books can bring to the student who decides he does indeed desire to become a man of education and stature.

In addition to the D. H. Hill Library, specialized branch libraries are maintained in Textiles, Design, and the Biological Sciences.

HOUSING

At State, the dormitory is considered something more than merely a suitable place for living and studying. A well-organized dormitory program plays an important role in the student's all-around development. Under the program, each dormitory is organized much like a club, with officers elected by the residents, and paid student managers recommended by the dormitory officers and approved by the college. Each student is encouraged to participate in the athletic, social and recreational activities of his dormitory and in this way to have opportunity to meet and make friends with students of variant backgrounds, to use his leisure time pleasantly and profitably, and to grow in personality. Each dormitory elects its representatives to the Interdormitory Council, a student organization which coordinates inter-dormitory activities and programs. In each of eight major dormitories faculty couples occupy apartments and act as hosts and hostesses. They assist the occupants with their problems and provide a pleasant atmosphere in which the parents and friends of the occupants can visit the dormitory.

The College has no dormitory for women students. Co-eds must make their own housing arrangements. A list of available rooms for rent is maintained at the Dormitory Rental Office in Room 4, Holladay Hall.

For the married veteran, the college has 204 units equipped for family living located in Vetville. Vetville has its own community government with officers elected by the residents.

During the 1958-59 academic year, approximately 400 students are living in off-campus residences maintained by the eighteen social fraternities which have chapters at State College. Each chapter is represented in the Interfraternity Council, which sponsors athletic events and social functions of particular interest to fraternity members.

FOOD SERVICES — — — — —

The State College student does not have to travel far for food, whether it is a full meal or a between-class snack.

Leazar Hall, the main dining hall, provides four cafeteria lines where the student may secure nutritious food at reasonable prices. The cafeteria will accommodate 1,600 people an hour.

The College Union building offers dining room facilities for groups and a snack bar. Shuttle Inn in the Textile Building serves sandwiches and grill items. Shuttle Inn is operated by the Student Supply Store.

In addition, each dormitory area has its own snack bar, also operated by the Student Supply Store system.

LAUNDRY AND DRY CLEANING — — — — —

The college laundry provides on-campus laundry and dry-cleaning service on a cash-and-carry basis for both students and staff at inexpensive rates.

LINEN RENTAL SERVICE — — — — —

This service provides for an initial issue of two (2) sheets, one (1) pillow case and three (3) towels and a complete change each week during the school year. A student availing himself of this service need not purchase or bring these items with him when he comes to enter school. The service is available to all students at a cost of \$22.50 per school year. Applications for this service are mailed with Dormitory Room Reservation forms, or they may be obtained from the Dormitory Rental Office.

BARBER SERVICE — — — — —

Two barber shops are provided, one in the YMCA Building and one in the College Union.

BOOKS AND SUPPLIES — — — — —

Watauga Book Shop. All required textbooks and other books of current and permanent interest can be purchased in Watauga Book Shop, housed in the basement of Watauga Hall.

Book Exchange. Alpha Zeta, student honor fraternity, maintains a book exchange in College Union where students may exchange or sell used books.

General Supplies. The Student Supply Store, located in the basement of the YMCA Building, stocks a wide variety of general items which the student will need, including drawing instruments, writing supplies and incidentals.

HEALTH — — — — —

The college seeks to safeguard the health of the student in every way possible. It maintains a 76-bed infirmary, open 24 hours a day, with a staff of fifteen: two college physicians, a supervising nurse, a night supervisor, six general duty nurses, one full-time laboratory and X-ray technician, and four other personnel. Among the many valuable features of the infirmary are an up-to-date first aid department and X-ray department.

The college physicians observe regular daily office hours in the infirmary, in the mornings and afternoons. In addition, they visit the infirmary more often when necessary. A graduate nurse is on duty day and night. Students have free access to the infirmary at all times.

In case of accident or serious illness of a student, parents or guardians will be notified immediately. No surgical operation will be performed without full consent of parents or guardians, except in cases of extreme emergency.

The medical fee which each student pays provides for infirmary service, general medical treatment, and for the services of nurses. It does not provide for surgical operations, outside hospital care, or the services of dentists or other specialists.

Before the student enters college he should have a complete, thorough examination by his family physician. Any abnormality should be noted and

all remedial defects corrected in order to prevent unnecessary loss of time while the student is in college. If the examination is not done before he enters, the student will be given a physical examination at the college, for which a fee is charged. Blanks for the physical examination can be secured from the Office of Admissions and Registration.

The college offers annually a plan of student accident and health insurance. The insurance is planned to cover the surgical, accident and hospital needs of the student supplementing the services of the infirmary. Each year complete information will be furnished students before the opening of school.

— — — — — ORIENTATION

Several days before the registration of upperclassmen in the fall semester, new students arrive on the campus for a series of activities known as Orientation Week. To help freshmen with the transition from high school to college and to help new students become acquainted with the campus and with college regulations, the College arranges during this period a series of meetings and conferences with faculty and student leaders.

Throughout the first semester, there are other activities designed to continue orientation and to supplement orientation courses conducted by the individual schools. In addition, the individual schools provide for regular contact with faculty advisers so that each student has the opportunity for discussing matters connected with his adjustment to college life.

— — — — — COUNSELING: STUDENT QUESTIONS AND PROBLEMS

General. The general information center for students at State College is located in Holladay Hall and includes the offices of the Dean of Student Affairs and of administrators handling admissions, registration, records, attendance, student activities, student housing, orientation and counseling, and student financial aid.

Academic. Upon enrolling at State College, each student is assigned a faculty adviser, usually a member of the department in which the student is taking his major work. This faculty adviser works with the student in planning his program of studies and is available for other help in solving problems of an academic nature. The deans, directors of instruction, and department heads are also available to the student to help him get information about the different curricula and to help him think through his educational plans. Teachers of courses in which the student is enrolled are the best sources of help with particular subjects. Members of the teaching staff maintain a schedule of office hours and expect the student to consult them individually wherever special help is needed.

Dormitory Counseling. Each of the dormitories at State College has a building manager, an upperclassman with the qualifications for, and responsibility of, helping individual students in his dormitory, particularly freshmen, in any way he can. Floor managers and assistant floor managers chosen on the same basis, assist the dormitory manager. Whenever these managers cannot answer particular questions or give aid in solving special problems, they direct the student to the administrative official who can. Also, in the larger dormitories, faculty couples are quartered, to provide the influence and assistance that such mature persons can give.

Financial Problems. The services of the Student Financial Aid Office are discussed in the next section.

Counseling Center. The State College Counseling Center is located on the 2nd floor of Holladay Hall. Counseling with respect to vocational and curricular choice, problems of adjustment to college life, and various personal problems, is available at the Center. Students may be referred by teachers, advisers and others of the college staff, or they may come on their own initiative. Psychological tests, information concerning various occupations, and other aids are used in helping students. Referral can be made for students desiring remedial work in speech, reading, and other special areas.

Placement. Each of the degree-granting Schools at State College provides its students with assistance in obtaining employment during summer vacation and upon graduation. In some curricula a period of approved summer work is required for graduation.

FINANCIAL AID

Help in meeting college expenses is available to State College students in several forms: scholarships, grants-in-aid, loans, athletic awards, deferred payments on tuition and fees, part-time jobs.

Financial aid is administered by the Student Financial Aid Officer under the general direction of the College Committee on Scholarships and Student Aid. Students seeking information or counseling on financial matters, or wishing to apply for assistance, should write or come to the Student Financial Aid Office at 207 Holladay Hall.

Scholarships include those which are available generally, without regard to curriculum, and those restricted to the students of particular schools or departments. They include awards available to entering students and those available to upperclassmen.

Grants-in-aid are small scholarships, normally not exceeding \$200.00 per student per year, awarded with financial need as the main consideration.

Loans are made on a long-term, low-interest basis to deserving students, ordinarily with the understanding that repayment will be made after the student leaves the college permanently. Usually such loans do not exceed \$300.00 per student per year. Short-term emergency loans, generally not exceeding \$50.00, are also available.

Athletic Awards are made upon the recommendation of the Athletic Department to athletes who meet the established qualifications for such awards.

A Part-time Employment Service is provided, to assist students in locating jobs both on and off campus.

Periodically, the Scholarship and Student Aid Committee publishes a full listing of scholarships and awards available both to entering freshmen and to upperclassmen. Copies of these listings may be secured from the Student Financial Aid Office.

FELLOWSHIPS AND GRADUATE ASSISTANTSHIPS

Graduate fellowships are funds offered to graduate students to assist in the support of programs of advanced study. Holders of fellowships have no obligations to the college and may devote full time to the prosecution of their graduate programs. Funds for these fellowships are provided by various professional groups and business organizations. Applicants for fellowships should contact the head of the department in which they wish to pursue studies.

Graduate assistantships are short-term staff appointments that carry stipends ranging from \$1200 to \$4800 depending upon the magnitude of the service obligation and the experience of the appointee. **Teaching assistants** are customarily appointed annually for the nine months academic year. **Research assistants** are often appointed on a calendar year basis and, accordingly, stipends may be 20 per cent larger than those for teaching assistants. Only graduate students in good-standing are eligible for appointment to graduate assistantships. The course loads permitted graduate assistants are adjusted in proportion to the service obligation. Graduate assistants giving half time to their service obligation may register for 60 per cent of a full course load.

. . . the two supreme temporal needs of North Carolina today are (1) a race of farmers so intelligent, so thrifty, so capably fitted that it can win from the soil a more adequate return for its labors and thereby add to its comfort and education and wealth of the State. . . .

. . . and (2) a specifically educated class of men who can turn our raw products into more highly organized wares and who can skillfully and unhesitatingly lead the industrial progress of our people To contribute more and more each year to the rearing of such men is the mission of our college.

Daniel Harvey Hill
President, 1908-1916





III. PROGRAMS OF STUDY BY SCHOOLS

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SCHOOL OF AGRICULTURE

D. W. Colvard, Dean

H. B. James, Director of Instruction

INTRODUCTORY —————

The agriculture of our modern world is more than growing food and fibre. It includes all of the technical, professional and business occupations connected with the processing and distribution of farm products.

The men who produce and supply the farmer with his complex needs, the farmer himself, those to whom he sells, the processor of these products, and the retailer—all these are part of today's agriculture.

All told they add up to nearly 40 per cent of the 65 million employed people in the United States—making agriculture the nation's biggest single industry. There are more than 500 distinct occupations in today's agriculture—jobs that each year need more than twice the number of people trained to fill them.

This new concept of agriculture is defined to include three important groups in our economy. The first is the farmers themselves—those who are engaged in the production of crops and livestock. The second includes those industries which furnish supplies and services to farmers; the third includes those industries which process, store, handle and merchandise farm products.

The overall objective of the School of Agriculture is the development of well-rounded, educated citizens capable of assuming important roles in business, science and technology as they relate to farming and associated industries.

FACILITIES —————

A sound teaching and research program is based on taking advantage of the most modern equipment available in each field. North Carolina State is fortunate to have at its disposal the newest equipment and facilities in many fields.

Laboratories are well equipped with the necessary materials for learning and practicing the basic and applied sciences. Machinery and equipment, in some cases provided by private industry, keep students abreast of the latest technological advances. Extensive plant, animal and insect collections are available for use in teaching and for research.

The D. H. Hill Library at N. C. State has a large collection of scientific books and periodicals which provide excellent source material for many courses. In addition, students may draw from the specialized periodicals and textbooks located in the Departmental Libraries.

North Carolina State's seventeen outlying research farms provide a practical classroom for many courses, as well as a place where researchers can carry on basic and applied research.

STUDENT ACTIVITIES —————

Students in the School of Agriculture have ample opportunities to take part in many broadening extra-curricular activities, both within the school and in the college itself.

Most departments have student organizations which provide professional as well as social experience. Student tours provide an opportunity to see first-hand the application of classroom principles.

In addition, judging teams representing Animal Industry, Horticulture and Poultry, compete regionally and nationally, giving student members a chance to travel while learning more about their field.

CURRICULAR OFFERINGS AND REQUIREMENTS

The modern concept of agriculture has given North Carolina State College's oldest school its newest look. A freshman enrolling in the School of Agriculture now chooses from three curricula—Agricultural Business, Agricultural Science, or Agricultural Technology—devised to more closely parallel the new concept.

After completing the first two years, consisting largely of basic courses in the biological, physical and social sciences, the student can choose his major from among the thirty-four offered by the School.

The student's needs for learning "how to make a living" and for learning "how to live" are both given consideration in the three curricula. Not only does each student get the solid background in science so necessary for today's agriculture, he has a chance to develop a program to fit his individual needs and wants.

Although requirements vary in the curricula, students in all three get a solid background in the sciences, plus a variety of electives. All the curricula have requirements in English and modern languages, the social sciences and humanities, and the physical and biological sciences. In addition, electives can be chosen from several specified areas (see curricula listings below), depending on the curriculum. The student will also have departmental requirements and electives in his major field.

In general, requirements are similar no matter which curriculum the student chooses. However, the program in **Science** places more emphasis on the physical and biological sciences, while that in **Business** emphasizes economics and business management, and the course in **Technology** is stronger in the applied science and technology courses. In some cases, a student may take the same major in any of the three curricula, depending on his interests and objectives.

The majors offered in the three curricula are:

Agricultural Business—Agricultural Economics, Animal Husbandry, Dairy Manufacturing, Dairy Husbandry, Field Crops, Horticulture, Poultry Science, Soils.

Agricultural Science—Agricultural Economics, Agricultural Engineering (joint program with the School of Engineering), Animal Husbandry, Botany, Chemistry, Dairy Manufacturing, Dairy Husbandry, Entomology, Experimental Statistics, Field Crops, Horticulture, Poultry Science, Rural Sociology, Soils, Wildlife Biology, Zoology. Pre-Veterinary work is also taken in this curriculum.

Agricultural Technology—Agricultural Economics, Agricultural Engineering, Animal Husbandry, Dairy Manufacturing, Dairy Husbandry, Field Crops, Horticulture, Plant Protection, Poultry Science, Soils.

DEGREES

The degree of Bachelor of Science is conferred upon the satisfactory completion of one of the curricula in this school.

The degrees of Master of Science, Master of Agriculture and professional degrees are offered in the various departments of the School of Agriculture after the satisfactory completion of at least one year of graduate study in residence.

The Doctor of Philosophy degree is offered by the following departments: Agricultural Economics, Agricultural Engineering, Animal Industry, Experimental Statistics, Field Crops, Botany, Entomology, Genetics, Plant Pathology, Soils and Zoology.

Further information may be found in the Graduate School Catalog.

OPPORTUNITIES

Agriculture is a broad field with fascinating new opportunities. It needs trained persons to process and distribute agricultural products, to give

AGRICULTURE

special services to people who actually produce these products, and to do research and teaching that will make our agricultural production and distribution even more efficient.

The eight major fields of agriculture—research, industry, business, education, communications, conservation, services, as well as farming and ranching—need 15,000 college graduates each year in the United States. But at present, our colleges are graduating only about 7,000 a year trained for these jobs. This leaves more than two jobs for each graduate.

In North Carolina alone, there is a desperate need for college-trained people to farm their own land, and for well-schooled specialists in the fertilizer, dairy, feed, insecticide, farm implement and distribution industries. These industries put graduates in key positions and call for more than State College can supply.

Some of the opportunities in the eight major fields of agriculture are:
Research—production, marketing, engineering, processing, conservation, reclamation, etc.

Industry—machinery and equipment, chemicals, food processing, grain and seed processing, meat and poultry packing, etc.

Business—banking and credit, insurance, farm management, land appraisal, marketing, transportation, etc.

Education—vocational agriculture, agricultural extension, college instruction, governmental agencies, etc.

Communications—writing, reporting, radio, television, newspapers, magazines, advertising, publications, etc.

Conservation—soil, water, range, forest, fish, wildlife, parks, turf, etc.

Services—Inspection and regulation, production field service, quality control and grading, agricultural technicians and consultants, etc.

Farming and Ranching—general, dairy, swine, beef, sheep, poultry, cotton, forage, grain, fruits, tobacco, etc.

Practically all types of occupations—over 500 of them—are available to a graduate in agriculture. There are many opportunities in technology, science and business. The School of Agriculture stands ready to help meet the challenge of the new concept of agriculture with forward-looking curricula.

CURRICULA IN THE SCHOOL OF AGRICULTURE — — — —

CURRICULUM IN AGRICULTURAL BUSINESS

Credits

AG 103	Introduction to Agriculture	1
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Languages (12 Credits)

ENG 111, 112	English Composition	6
ENG 231	Basic Speaking Skills	3
Elective	(English or Modern Languages)	3

Social Science and Humanities (21 Credits)

EC 201	Economics	3
AGC 212	Economics of Agriculture	3
HI 261	The United States in Western Civilization	3
PS 201	The American Governmental System	3
PSY 200	Introduction to Psychology	3
RS 301	Sociology of Rural Life	3
Elective from Group D		3

Physical and Biological Sciences (24 Credits)

MA 111, 112	Algebra and Trigonometry, Analytic Geometry and Calculus A	8
CH 101	General Inorganic Chemistry	4
PY 211	General Physics	4
BO 103	General Botany	4
ZO 103	General Zoology	4

Electives (68 Credits)*

Restricted electives from Group B	24	
Restricted electives from Groups A and C	6	
Departmental requirements and electives	26	
Free electives	12	
	<hr/>	
Sub-total	126	
PE 101, 102, 201, 202	Physical Education	4
MS 101, 102, 201, 202	Military Science I and II, or	
AS 121, 122, 221, 222	Air Science I and II	8
		<hr/>
Total		138

* Group A includes the physical and biological sciences; Group B, economics and business management; Group C, applied science and technology; Group D, social sciences and humanities. A listing of the courses in each group can be obtained by writing the Director of Instruction, School of Agriculture, N. C. State College, Raleigh, North Carolina.

CURRICULUM IN AGRICULTURAL SCIENCE

Credits

AG 103	Introduction to Agriculture	1
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Languages (12 Credits)

ENG 111, 112	English Composition	6
Electives	(English or Modern Languages)	6

Social Science and Humanities (21 Credits)

Electives from Group D	21
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Physical and Biological Sciences (28 Credits)

MA 101, 102	First Year Math for Engineers, or	
MA 111, 112	Algebra and Trigonometry, Analytic Geometry and Calculus A	8-9
CH 101, 103	General Inorganic and Qualitative Chemistry, or	
CH 201, 203	General Inorganic and Organic Chemistry	8-9
PY 211	General Physics, or	
PY 201	General Physics	4
BO 103	General Botany	4
ZO 103	General Zoology	4

AGRICULTURE

*Electives (64 Credits)**

Restricted electives from Group A**	26
Departmental requirements and electives	26
Free electives	12
Sub-total	126
PE 101, 102, 201, 202 Physical Education	4
MS 101, 102, 201, 202 Military Science I and II, or	
AS 121, 122, 221, 222 Air Science I and II	8
Total	138

* Group A includes the physical and biological sciences; Group B, economics and business management; Group C, applied science and technology; Group D, social sciences and humanities. A listing of the courses in each group can be obtained by writing the Director of Instruction, School of Agriculture, N. C. State College, Raleigh, North Carolina.

** Six credits may be elected from Groups B and C. Social Science majors may select from Group D.

CURRICULUM IN AGRICULTURAL TECHNOLOGY

Credits

AG 103	Introduction to Agriculture	1
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Languages (12 Credits)

ENG 111, 112	English Composition	6
ENG 231	Basic Speaking Skills	3
Elective	(English or Modern Languages)	3

Social Science and Humanities (21 Credits)

EC 201	Economics	3
AGC 212	Economics of Agriculture	3
HI 261	The United States in Western Civilization	3
PS 201	The American Governmental System	3
RS 301	Sociology of Rural Life	3
Electives from Group D		6

Physical and Biological Sciences (32 Credits)

MA 101, 102	First Year Math for Engineers, or	
MA 111, 112	Algebra and Trigonometry, Analytic Geometry and Calculus A	8-9
CH 101	General Inorganic Chemistry	4
CH 103	General and Qualitative Chemistry, or	
CH 203	General and Organic Chemistry	4
PY 211	General Physics	4
BO 103	General Botany	4
ZO 103	General Zoology	4
SOI 200	Soils**	4

*Electives (60 Credits)**

Restricted electives from Groups A and B	9-12
Restricted electives from Group C	9-12
Departmental requirements and electives	27
Free electives	12
Sub-total	126

PE 101, 102, 201, 202	Physical Education	4
MS 101, 102, 201, 202	Military Science I and II, or	
AS 121, 122, 221, 222	Air Science I and II	8
Total		138

- * Group A includes the physical and biological sciences; Group B, economics and business management; Group C, applied science and technology; Group D, social sciences and humanities. A listing of the courses in each group can be obtained by writing the Director of Instruction, School of Agriculture, N. C. State College, Raleigh, North Carolina.
- ** Upon approval by the Director of Instruction, Geology 120 may be substituted for Soils.

----- AGRICULTURAL ECONOMICS

Patterson Hall

Professor C. E. BISHOP, Head of the Department
Professors H. BROOKS JAMES, RICHARD A. KING, JAMES G. MADDOX,
WALTER H. PIERCE, GEORGE S. TOLLEY
Associate Professors ARTHUR J. COUTU, QUENTIN W. LINDSEY, WILLIAM
D. TOUSSAINT, JAMES C. WILLIAMSON, JR.
Visiting Professor GEORGE MORTON
Assistant Professors WILLIAM R. HENRY, JAMES A. SEAGRAVES, ANTHONY
P. STEMBERGER, RICHARD L. SIMMONS
Instructor WALTER L. FISHEL

----- OBJECTIVES

Students in Agricultural Economics are given training in the economic aspects of operating agricultural businesses. These Businesses include the three broad areas defined in the new concept of agriculture—farmers, industries which process, store, handle and merchandise agricultural products, and those which furnish supplies and services to agriculture.

Emphasis is also placed upon consumption of farm products and how changes in consumption affect decisions of producers and processors.

A sound foundation in basic economic principles is provided so that the graduate will be able to deal with the rapid changes in the techniques of agricultural production and marketing.

The general objectives of the department are: (1) to train students to make sound decisions in organizing and managing farms and other agricultural businesses; (2) to train students in the fundamentals of business organization; (3) to provide an understanding of the relation of agriculture to other parts of the economy, and how to evaluate agricultural policy and economic changes which affect agriculture; and (4) to train graduate students in advanced economic theory and research techniques.

----- OPPORTUNITIES

Training in Agricultural Economics qualifies a student for a wide range of opportunities. Many graduates of the department are employed in research and education work by various agencies of the federal and state governments. These agencies include the Agricultural Extension Service, the Agricultural Experiment Station, the State Department of Agriculture and various agencies of the United States Department of Agriculture.

The growing number of companies processing and manufacturing agricultural products has created an increasing demand for people trained in agricultural economics. Opportunities here include employment by companies handling farm supplies such as feed, fertilizer and equipment; general marketing and processing firms; agricultural cooperatives; professional farm management agencies; and commercial banks.

Openings in all of these areas greatly exceed the number of graduates trained to fill them. And as the industrial and agricultural development of the region continues, employment opportunities are expected to increase.

AGRICULTURE

CURRICULA — — — — —

Undergraduate

The degree of Bachelor of Science with a major in Agricultural Economics may be earned under any of the three general curricula in the School of Agriculture.

Agricultural Business. In addition to the requirements of the Agricultural Business curriculum, the following courses are required:

Group B Courses (24 Credits)

		<i>Credits</i>
EC 302	National Income and Economic Welfare	3
EC 401	Principles of Accounting	3
EC 407	Business Law I	3
AGC 521	Economics of Agricultural Marketing, or	
AGC 523	Farm Management II	3
	Electives	12

Group A and C Courses (6 Credits)

CH 103	General and Qualitative Chemistry, or	
CH 203	General and Organic Chemistry	4
	Electives	2

Departmental Requirements and Electives (26 Credits)

AGC 303	Farm Management I	3
ST 311	Introduction to Statistics	3
AGC 533	Agricultural Policy	3
AGC 521	Economics of Agricultural Marketing	3
AGC 523	Farm Management II	3
	Electives	11

Agricultural Science. In addition to the requirements of the Agricultural Science curriculum, the following courses are required:

Group A Courses (26 Credits)

MA 211 and 212	Analytic Geometry and Calculus B, C,	
	or	
MA 201 and 202	Calculus I and Calculus II	6 or 8
	Electives*	18 or 20

Departmental Requirements and Electives (26 Credits)

AGC 303	Farm Management I	3
AGC 311	Marketing Agricultural Products,	
	or equivalent	3
ST 311	Introduction to Statistics	3
EC 401	Principles of Accounting	3
AGC 533	Agricultural Policy	3
AGC 551	Agricultural Production Economics	3
AGC 552	Consumption, Distribution and Prices	
	in Agriculture	3
	Electives	5

Agricultural Technology. In addition to the requirements of the Agricultural Technology curriculum the following courses are required:

Group A and B Courses (9-12 Credits)

		<i>Credits</i>
AGC 521	Economics of Agricultural Marketing, or	
AGC 523	Farm Management II	3
	Electives	6-9

Group C Courses (9-12 Credits)

Electives	9-12
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Departmental Requirements and Electives (26 Credits)

AGC 303	Farm Management I	3
AGC 311	Marketing Agricultural Products	3
ST 311	Introduction to Statistics	3
EC 401	Principles of Accounting	3
AGC 533	Agricultural Policy	3
AGC 551	Agricultural Production Economics	3
AGC 552	Consumption, Distribution and Prices in Agriculture	3
	Electives	5
		<hr/> 12

* Six Credits may be elected from Groups B and C. Additional electives may be chosen from Group D.

Graduate

The Department of Agricultural Economics offers programs of study leading to the Master of Agricultural Economics, the Master of Science and the Doctor of Philosophy degrees.

Special emphasis is placed on the economics of agricultural production and marketing, analysis of programs and policies affecting agriculture, and statistical techniques which can be used in solving agricultural problems.

— — — — — **AGRICULTURAL ENGINEERING**

Agricultural Engineering Building

Professor G. WALLACE GILES, Head of the Department

Professors J. M. FORE, F. J. HASSLER, DAVID S. WEAVER, JOHN W. WEAVER, JR.

Associate Professors H. D. BOWEN, JAN VAN SCHILFGAARDE, W. E. SPLINTER
Assistant Professors GEORGE B. BLUM, JR., EZRA L. HOWELL, K. A. JORDON,
W. T. MILLS, N. W. WELDON

Instructors E. O. BEASLEY, J. F. BEEMAN, THOMAS H. GARNER, W. H. JOHNSON, REX B. SPRINGSTON, C. W. SUGGS, J. I. SEWELL, J. D. TRAYWICK, R. W. WATKINS, EDWARD H. WISER

Head Mechanic RALPH B. GREENE

— — — — — **OBJECTIVES**

Students in Agricultural Engineering are educated and trained to deal with the problems of agriculture that are engineering in nature. Involved are the application of scientific and engineering principles to the

AGRICULTURE

conservation and utilization of water and soil, the development of power and labor-saving devices for all phases of agricultural production, the design of structures and equipment for housing, and handling livestock and field products, and the processing and marketing of farm products.

The need for men to carry out the technical aspects such as development and research as well as less technical work, such as sales and service of farm equipment, requires the offering of two distinct curricula as described below.

OPPORTUNITIES — — — — —

Men trained in Agricultural Engineering under the Science curriculum are qualified for positions in design, development and research in public institutions and in industry, and for teaching and extension work in institutions of higher education. The curriculum also provides adequate training for postgraduate work leading to advanced degrees.

Men trained in the field of Agricultural Engineering Technology are qualified for positions in sales and service of agricultural equipment such as farm machinery, irrigation systems, etc.; as county agents or farmers; and for farm advisory work with such organizations as electric power companies.

CURRICULA — — — — —

Undergraduate

Agricultural Science. This curriculum, offered in conjunction with the School of Engineering, is designed to develop young men capable of engineering, is designed to develop young men capable of engineering leadership in agriculture. Emphasis is placed on basic science courses such as mathematics, physics, mechanics, biology, soils and thermodynamics, which provide a sound background for engineering and agricultural technology. Courses in Agricultural Engineering are directed to those methods of thought and techniques whereby science can be applied with understanding and judgement to engineering situations in agricultural operations. General agriculture courses are provided so that the student can better understand the agricultural industry with which he deals.

Since Agricultural Engineering involves two distinct technical fields—agriculture and engineering—this curriculum is a joint responsibility of the two schools and is so administered.

Yearly Courses in Agricultural Engineering

FRESHMAN

Credits

ENG 111, 112	English Composition	6
MA 101, 102	First Year Math for Engineers	9
AG 101	Introduction to Agriculture	1
CH 101	General Inorganic Chemistry	4
AGE 151, 152	Farm Mechanics	4
ME 101, 102	Engineering Graphics I, II	4
MS 101, 102	Military Science, or	
AS 121, 122	Air Science	4
PE 101, 102	Physical Education	2

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SOPHOMORE

EM 311	Mechanics I	3
CH 203	General and Organic Chemistry	4
CE 201	Surveying I	3
AGE 211	Farm Power and Machinery	3
MA 201, 202	Calculus I, II	8
PY 201, 202	General Physics	10
MS 201, 202	Military Science, or	
AS 221, 222	Air Science	4
PE 201, 202	Physical Education	2
		<hr/>
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JUNIOR

HI 261	The United States in Western Civilization	3
EC 201	Economics	3
EE 320	Elements of Electrical Engineering	4
EM 312	Mechanics II	3
EM 321	Strength of Materials I	3
EM 430	Fluid Mechanics	2
ENG 231	Basic Speaking Skills	3
ME 301	Engineering Thermodynamics I	3
MA 401	Differential Equations	3
SOI 200	Soils	4
	English Elective	3
	Electives	6
		<hr/>
		40

SENIOR

BO 103	General Botany	4
AGC 212	Economics of Agriculture	3
AGE 371	Soil and Water Conservation Engineering	4
AGE 451	Curing and Drying of Farm Crops	2
AGE 452	Senior Seminar	1
AGE 462	Farm Power and Machinery IIA	4
AGE 481	Farm Structures	4
AGE 491	Rural Electrification	4
AGE 552	Instrumentation for Agricultural Research and Processing	1
PS 201	The American Governmental System	3
RS 301	Sociology of Rural Life	3
	Humanities Elective	3
	Electives	6
		<hr/>
		42

ST 361, Introduction to Statistics for Engineers, and PY 407, Introduction to Modern Physics, are recommended for electives.

Agricultural Technology. This curriculum is less technical than the Agricultural Engineering curriculum. It is designed for those who are working on a practical level with farm people. Graduates are equipped to apply to the farm the new technology as developed and revealed by the technical engineer. The courses are presented mainly from the viewpoint of the user and consumer.

In addition to the requirements of the Agricultural Technology curriculum, the following courses are required:

AGRICULTURE

Group A and B Courses (11 Credits)

		<i>Credits</i>
MA 201	Calculus I	4
PY 212	General Physics	4
	Electives	3

Group C Courses (10 Credits)

EM 341	Mechanics (Statics) A	2
EM 342	Mechanics (Dynamics) B	2
AI 201	Elementary Dairy Science)
AI 202	Fundamentals of Animal Husbandry)
FC 211	Field Crops I)
FC 312	Pastures and Forage Crops)
FC 414	Weeds and Their Control)
HRT 222	Introduction to Horticulture)
PO 201	Poultry Production)

Departmental Requirements and Electives (27 Credits)

AGE 151, 152	Farm Mechanics	4
AGE 211	Farm Power and Machinery	3
AGE 321	Irrigation, Terracing and Drainage	3
AGE 411	Farm Power and Machinery IIB	3
AGE 332	Farm Buildings and Crop Processing	3
AGE 341	Farm Electrification and Utilities	3
AGE 452	Seminar	1
ME 101, 102	Engineering Graphics I, II	4
CE 201	Survey I	3

The following courses, listed as optional in the basic Agricultural Technology curriculum, are required:

MA 101, 102	First year Math for Engineers
CH 203	General and Organic Chemistry

Graduate

The Department of Agricultural Engineering offers advanced study leading to the Ph.D. degree in any one of five fields of specialization. Power and Machinery, Rural Structures, Soil and Water Conservation, Rural Electrification, or Agricultural Processing.

The Master of Science program in Agricultural Engineering provides a broad background in science and engineering through advanced study in mathematics and physics.

For those individuals interested primarily in existing technology, a program of study for the Master of Agricultural Engineering degree permits selections from a variety of advance application courses. This program provides training appropriate for those engaged in the dissemination of information either as extension workers with public institutions or service representatives for industry. It is not intended as preliminary study to the Ph.D. degree.

AGRONOMY — — — — —

See FIELD CROPS AND SOILS

ANIMAL INDUSTRY

Polk Hall

Professor GEORGE HYATT, JR., *Head of the Department*

Professors E. R. BARRICK, E. G. BATTE, J. L. ETCHHELLS, F. M. HAIG, J. E. LEGATES, GENNARD MATRONE, J. C. OSBORNE, W. M. ROBERTS, M. L. SPECK, W. E. THOMAS, G. H. WISE.

Associate Professors L. W. AURAND, T. N. BLUMER, W. R. MURLEY, R. B. REDFERN, F. H. SMITH, S. B. TOVE, L. C. ULBERG, F. G. WARREN.

Assistant Professors A. J. CLAWSON, E. U. DILLARD, LEMUEL GOODE, J. J. MCNEILL, R. D. MOCHRIE, J. L. MOORE, R. M. MYERS, H. A. RAMSEY, W. W. G. SMART, JR., M. B. WISE.

Instructors H. B. CRAIG, G. L. ELLIS, C. G. WILKES, J. H. GREGORY, J. M. LEATHERWOOD, E. A. ZURAW.

OBJECTIVES

The Department of Animal Industry has the responsibility for training students in the field of dairy and livestock production and processing. To accomplish this aim, the department offers three majors—Animal Husbandry, Dairy Husbandry and Dairy Manufacturing—in each of the three curricula in the School of Agriculture.

Because of the new and broadened concept of agriculture, more job opportunities are provided in Animal Industry for students of varying backgrounds. Farm experience is beneficial for certain fields of Animal Industry; however, it is not essential for others. Members of the staff of the Department of Animal Industry will be glad to assist in planning summer work programs for students.

Plans have been initiated to offer within the next two years, an undergraduate program for a major in animal Nutrition in the Agricultural Science Curriculum.

OPPORTUNITIES

There are many and varied opportunities for students who major in any of the Animal Industry programs to enter the production, processing and marketing fields. The main opportunities in each major are:

Animal Husbandry—Agricultural extension and other educational work, feed consulting and sales work, livestock management, livestock breed promotion, livestock equipment sales, meat packing and processing, animal by-product manufacture and distribution, research and development, marketing livestock and livestock products, animal nutrition and animal breeding.

Dairy Husbandry—Agricultural extension and other educational work, feed consulting and sales work, dairy herd management, dairy breed promotion, dairy equipment sales, research and development, marketing dairy cattle and dairy products, dairy field work, dairy cattle nutrition and dairy cattle breeding.

Dairy Manufacturing—Dairy products sales, procurement of dairy products, processing dairy products, dairy plant management, dairy plant accounting, dairy supplies and equipment sales, quality control of dairy products, government (state or federal) inspection and control of dairy products and dairy products research and development.

CURRICULA

Undergraduate—Animal Husbandry

The degree of Bachelor of Science with a major in Animal Husbandry may be obtained under any of the three curricula offered by the School of Agriculture.

AGRICULTURE

Agricultural Business. In addition to the requirements of the Agricultural Business curriculum, the following courses are required:

Group B Courses (24 Credits)

	<i>Credits</i>
Electives	24

Group A Courses (6 Credits)

CH 451	Introductory Biochemistry	3
ZO 301	Animal Physiology	3

Departmental Requirements and Electives (26 Credits)

AI 202	Fundamentals of Animal Husbandry	4
AI 303	Meat and Meat Products	3
AI 312	Principles of Livestock Nutrition	3
AI 406	Animal Industry Seminar	1
CH 203	General and Organic Chemistry	4
BO 312	General Bacteriology	4
GN 411	The Principles of Genetics	3
One of the following:		
AI 401	Beef Cattle Production	
AI 402	Sheep Production	
AI 403	Pork Production	3
	Elective	1

Agricultural Science. In addition to the requirements of the Agricultural Science curriculum, the following courses are required:

Group A Courses (26 Credits)

BO 312	General Bacteriology	4
CH 451	Introductory Biochemistry	3
ZO 301	Animal Physiology	3
GN 411	The Principles of Genetics	3
	Electives*	13

* Six credits may be elected from Groups B and C.

Departmental Requirements and Electives (26 Credits)

		<i>Credits</i>
AI 202	Fundamentals of Animal Husbandry	4
AI 303	Meat and Meat Products	3
AI 312	Principles of Livestock Nutrition	3
AI 406	Animal Industry Seminar	1
AI 502	Reproduction and Lactation	4
AI 503	Animal Breeding	3
AI 505	Animal Diseases	3
One of the following:		
AI 401	Beef Cattle Production	
AI 402	Sheep Production	
AI 403	Pork Production	3
	Elective	2

Agricultural Technology. In addition to the requirements of the Agricultural Technology curriculum, the following courses are required:

Group A and B Courses (10 Credits)

BO 312	General Bacteriology	4
CH 451	Introductory Biochemistry	3
ZO 301	Animal Physiology	3

Group C Courses (11 Credits)

Electives	11
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Departmental Requirements and Electives (27 Credits)

AI 202	Fundamentals of Animal Husbandry	4
AI 301	Grading and Selecting Meat Animals	2
AI 303	Meat and Meat Products	3
AI 312	Principles of Livestock Nutrition	3
AI 406	Animal Industry Seminar	1
AI 503	Animal Breeding	3
CH 203	General and Organic Chemistry	4
GN 411	The Principles of Genetics	3
One of the following:		
AI 401	Beef Cattle Production	
AI 402	Sheep Production	
AI 403	Pork Production	3
	Elective	1

Undergraduate—Dairy Husbandry

The degree of Bachelor of Science with a major in Dairy Husbandry may be obtained under any of the three curricula offered by the School of Agriculture.

Agricultural Business. In addition to the requirements of the Agricultural Business curriculum, the following courses are required:

Group B Courses (24 Credits)

Credits

Electives	24
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Group A Courses (6 Credits)

GN 411	Principles of Genetics	3
ZO 301	Animal Physiology	3

Departmental Requirements and Electives (26 Credits)

AI 201	Elements of Dairy Science	4
AI 312	Principles of Livestock Nutrition	3
BO 312	General Bacteriology	4
AI 404	Dairy Farm Problems	3
AI 406	Animal Industry Seminar	1
CH 203	General and Organic Chemistry	4
CH 451	Introduction to Biochemistry	3
AI 502	Reproduction and Lactation	4

Agricultural Science. In addition to the requirements of the Agricultural Science curriculum, the following courses are required:

AGRICULTURE

Group A Courses (26 Credits)

ZO 301	Animal Physiology	3
CH 451	Introduction to Biochemistry	3
GN 411	Principles of Genetics	3
	Electives*	17

Departmental Requirements and Electives (26 Credits)

AI 201	Elements of Dairy Science	4
AI 305	Selecting Dairy Cattle	
AI 312	Principles of Livestock Nutrition	3
BO 312	General Bacteriology	4
AI 404	Dairy Farm Problems	3
AI 406	Animal Industry Seminar	1
AI 502	Reproduction and Lactation	4
AI 503	Animal Breeding	3
	Elective	2

* Six credits may be elected from Groups B and C.

Agricultural Technology. In addition to the requirements of the Agricultural Technology curriculum, the following courses are required:

Group A and B Courses (9-12 Credits)

ZO 301	Animal Physiology	3
CH 451	Introduction to Biochemistry	3
GN 411	The Principles of Genetics	3
	Electives	0-3

Group C Courses (9-12 Credits)

Electives	9-12
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Departmental Requirements and Electives (27 Credits)

		<i>Credits</i>
AI 201	Elements of Dairy Science	4
AI 305	Selecting Dairy Cattle	2
AI 312	Principles of Livestock Nutrition	3
BO 312	General Bacteriology	4
AI 404	Dairy Farm Problems	3
AI 406	Animal Industry Seminar	1
AI 502	Reproduction and Lactation	4
AI 503	Animal Breeding	3
	Electives	3

Undergraduate—Dairy Manufacturing

The degree of Bachelor of Science with a major in Dairy Manufacturing may be obtained under any of the three curricula offered by the School of Agriculture.

Agricultural Business. In addition to the requirements of the Agricultural Business curriculum, the following courses are required:

<i>Group B Courses (24 Credits)</i>	<i>Credits</i>
Electives	24

Group A and C Courses (6 Credits)

CH 203	General and Organic Chemistry	4
	Elective	2

Departmental Requirements and Electives (26 Credits)

AI 201	Elements of Dairy Science	4
AI 406	Animal Industry Seminar	1
DM 401	Market Milk and Related Products	3
DM 407	Dairy Bacteriology I	4
DM 501	Advanced Dairy Technology	3
DM 504	Dairy Plant Management	4
BO 312	General Bacteriology	4

One of the following:

DM 402	Cheese	
DM 403	Ice Cream and Related Frozen Dairy Foods	
DM 404	Butter and Dairy By-Products	3

Agricultural Science. In addition to the requirements of the Agricultural Science curriculum, the following courses are required:

Group A Courses (26 Credits)

BO 312	General Bacteriology	4
DM 407	Dairy Bacteriology I	4
DM 506	Dairy Bacteriology II	3
DM 508	Dairy Chemistry	3
	Electives from Chemistry, Mathematics and Physics	12

Departmental Requirements and Electives (26 Credits)

		<i>Credits</i>
AI 201	Elements of Dairy Science	4
AI 406	Animal Industry Seminar	1
DM 401	Market Milk and Related Products	3
DM 501	Advanced Dairy Technology	3
DM 504	Dairy Plant Management	4
Two of the following:		
DM 402	Cheese	
DM 403	Ice Cream and Related Frozen Dairy Foods	
DM 404	Butter and Dairy By-Products	6
	Electives	5

Agricultural Technology. In addition to the requirements of the Agricultural Technology curriculum, the following courses are required:

Group A and B Courses (11 Credits)

BO 312	General Bacteriology	4
DM 407	Dairy Bacteriology I	4
	Electives	3

Group C Courses (10 Credits)

AI 201	Elements of Dairy Science	4
	Electives	6

AGRICULTURE

Departmental Requirements and Electives (27 Credits)

AI 406	Animal Industry Seminar	1
DM 401	Market Milk and Related Products	3
DM 501	Advanced Dairy Technology	3
DM 504	Dairy Plant Management	4
DM 506	Dairy Bacteriology II	3
Two of the following:		
DM 402	Cheese	
DM 403	Ice Cream and Related Frozen Dairy Foods	
DM 404	Butter and Dairy By-Products	6
	Electives	7

Graduate

The Department of Animal Industry Offers the Master of Science and Doctor of Philosophy degrees in Animal Industry and in Dairy Manufacturing. The degrees in Animal Industry provide for major programs of work in the fields of animal husbandry, dairy husbandry, animal nutrition, animal diseases, animal physiology and animal breeding.

BOTANY AND BACTERIOLOGY — — — — —

Gardner Hall

Professor H. T. SCOFIELD, Head of the Department
Professors E. A. BALL, H. J. EVANS
Associate Professor L. A. WHITFORD
Assistant Professors E. O. BEAL, A. W. COOPER, G. H. ELKAN, J. W. HARDIN, HEINZ SELTMANN, J. R. TROYER

OBJECTIVES — — — — —

The course program in the department has the objective of providing undergraduate and graduate instruction in the various specialized phases of basic plant science including microbiology. Undergraduates majoring in the department are usually oriented toward graduate work in this or other fields of science. Courses are supplemented by supervised programs of research for graduate students studying for Master's or Doctor's degrees. Course work in the department is also designed to provide a basis for study in the applied sciences in Agriculture and Forestry.

OPPORTUNITIES — — — — —

Majors in Botany and Bacteriology may choose to continue graduate work leading to the M. S. and Ph.D. degrees in one of several specialized fields. Majors specializing in Botany are qualified for many technological positions with various government institutions or private industries concerned with agriculture. Majors specializing in Bacteriology find employment opportunities in medical and agricultural industry or in the field of public health.

CURRICULA — — — — —

Undergraduate—Botany

The degree of Bachelor of Science with a major in Botany can be obtained under the Science curriculum of the School of Agriculture.
Agricultural Science. In addition to the requirements of the Agricultural Science curriculum, the following courses are required:

Physical and Biological Sciences

Credits

CH 203	General and Organic Chemistry	4
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Group A Courses

Electives*	26
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Departmental Requirements and Electives

BO 403	Systematic Botany	3
BO 421	Plant Physiology	4
BO 441	Plant Ecology	3
BO 513	Plant Anatomy	3
GN 411	Principles of Genetics	3
PP 315	Plant Diseases	3
BO 312	General Bacteriology	4
	Elective	3

Undergraduate—Bacteriology

The department does not offer an undergraduate degree with a major program in Bacteriology.

Graduate

Botany offers work leading to the Master of Science degree in the special fields of plant physiology, ecology, anatomy, morphology, bacteriology and systematic botany. Graduate work in preparation for the Doctor of Philosophy degree is offered in the fields of plant physiology, plant ecology and morphology.

* No more than 6 hours of Group A electives may be courses in the Department of Botany. Six credits may be elected from Groups B and C.

CHEMISTRY

Withers Hall

Professor W. A. REID, J. A. WEYBREW, Acting Head of the Department

Professor W. A. REID, In Charge of Chemistry Teaching

Professors C. C. ROBINSON, G. H. SATTERFIELD, P. P. SUTTON, J. A. WEYBREW

Associate Professors T. G. BOWERY, A. F. COOTS, R. R. HENTZ, W. E. JORDAN, R. H. LOEPPERT, S. B. TOVE, R. C. WHITE

Assistant Professors T. J. BLALOCK, W. P. INGRAM, JR., G. G. LONG, R. O. SIMMONS, R. L. STEVENS

Instructors J. L. HALL, JR., J. W. MORGAN, G. M. OLIVER, T. M. WARD, DAVID WILLIS

OBJECTIVES

Instruction in Agricultural and Biological Chemistry trains students in these areas of chemistry, strongly supported with fundamental training in the major division of chemistry and their applications.

OPPORTUNITIES

Students trained in chemistry find employment in laboratories maintained in connection with programs for the inspection and control of foods, pharmaceutical products, animal feeds, fertilizers, gasoline and other materials; with experiment stations and other federal and state agencies;

AGRICULTURE — — — — —

and in technical and business positions in the processing, manufacture, sale, distribution and use of a wide range of agricultural and industrial products. In addition, they receive excellent preparation for graduate study leading to research and teaching positions.

CURRICULA — — — — —

Undergraduate

The degree of Bachelor of Science may be earned under the Agricultural Science curriculum of the School of Agriculture.
Agricultural Science. In addition to the requirements of the Agricultural Science curriculum, the following courses are required:

<i>Languages (16 credits)</i>		<i>Credits</i>
ML 103	Elementary German	3
ML 104	German Grammar and Prose Reading	3

<i>Physical and Biological Sciences (24 Credits)</i>		
MA 101, 102	First Year Math for Engineers	9
CH 201, 205	General Inorganic and Qualitative Chemistry	10
PY 201	General Physics	5

<i>Group A Courses (22 Credits)*</i>		
MA 201, 202	Calculus I, II	8
PY 202	General Physics	5
CH 211, 212	Quantitative Chemistry	8
	Elective	1

<i>Departmental Requirements and Electives (26 Credits)</i>		
CH 421, 422	Organic Chemistry	10
CH 531, 532	Physical Chemistry	8
	Electives	8**

Graduate

The Department of Chemistry offers the degree of Master of Science in Chemistry. Several specialized areas for research studies are available for students in the department.

* Four additional hours in Group A are met in the Physical and Biological Sciences Group.
** Six hours must be Chemistry electives.
NOTE: AGR 103 is optional for majors in Chemistry.

DAIRY HUSBANDRY — — — — —
See ANIMAL INDUSTRY

DAIRY MANUFACTURING — — — — —
See ANIMAL INDUSTRY

ENTOMOLOGY

Gardner Hall

Professor CLYDE F. SMITH, *Head of the Department*

Professor Emeritus B. B. FULTON

Professors W. M. KULASH, T. B. MITCHELL

Associate Professors C. H. BRETT, D. A. YOUNG, JR.

Assistant Professors W. V. CAMPBELL, R. B. CHALFANT, M. H. FARRIER,

R. T. GAST, F. E. GUTHRIE, W. J. MISTRIC, H. H. NEUNZIG, R. L. RABB,

W. A. STEPHEN, G. F. TURNIPSEED

OBJECTIVES

The Entomology faculty offers instruction at both undergraduate and graduate levels and provides students in this field the broad and fundamental training necessary in this profession. Undergraduate instruction is also designed to provide introductory and terminal courses in insect control technology for students majoring in other areas of agriculture and in forestry.

OPPORTUNITIES

Opportunities for employment of well-trained entomologists are plentiful and varied. Research and teaching opportunities exist in many state institutions. Federal agencies offer many positions in control, research and regulatory work. Private industry is using more and more entomologists in the development, production, control testing and sale of agricultural chemicals. Other opportunities in entomology as consultants in domestic or foreign service as well as in private business and sales are available. Or, one can go into business for himself as a pest control operator or an insecticide formulator.

CURRICULA

Undergraduate

The degree of Bachelor of Science with a major in entomology is offered under the Agricultural Science curriculum of the School of Agriculture.

Agricultural Science. In addition to the requirements of the Agricultural Science curriculum, the following courses are required:

Group A Courses (26 Credits)

		<i>Credits</i>
SOI 200	Soils, or	
MIG 120	Geology	4 or 3
BO 312	General Bacteriology	4
GN 411	Principles of Genetics	3
CH 451	Introductory Biochemistry, or Equivalent	3
ST 311	Introduction to Statistics	3
BO 421	Plant Physiology, or	
ZO 301	Animal Physiology	4 or 3
ZO 205	Invertebrate Zoology	4
	Elective*	3

Departmental Requirements and Electives (26 Credits)

ENT 312	Economic Entomology, or	
ENT 301	General Entomology	3
ENT 511	Systematic Entomology	3
	Entomology electives	6
	Advised electives	14

* May be taken from Groups B and C.

AGRICULTURE

Agricultural Technology. The departments of Field Crops, Entomology and Plant Pathology offer a joint major in Plant Protection. See page 65 for details.

Graduate

The M.S. and Ph.D. degrees are offered in Entomology. The work in Entomology is well supported by strong departments in chemistry, statistics, and the plant and animal sciences.

* May be elected from Groups B and C.

EXPERIMENTAL STATISTICS — — — — —

Patterson Hall

Professor J. A. RIGNEY, Head of the Department

Professors R. L. ANDERSON, GERTRUDE M. COX, A. L. FINKNER, R. J. HADER, H. L. LUCAS, D. D. MASON, R. J. MONROE, H. F. ROBINSON

Associate Professors C. C. COCKERHAM, A. H. E. GRANDAGE, F. E. MCVAY

Assistant Professors MELVIN W. CARTER, J. FLEISCHER, D. F. MATZINGER, R. H. MOLL, W. G. SMART, F. J. VERLINDEN

Instructor C. W. GRAY (jointly with Psychology Department)

OBJECTIVES — — — — —

The Department of Experimental Statistics is a part of the Institute of Statistics. It provides instruction, consultation, experimental and computational service for all other departments of all schools in the college. The Agricultural Experiment Station received assistance in designing experiments, analyzing and interpreting results. Governmental agencies and other institutions use the facilities of the Department. The range and quality of data handled furnish an excellent background for training students in the use of statistical procedures in such fields as the biological, physical and social sciences and in industrial development and engineering.

OPPORTUNITIES — — — — —

Most fields of research, development, production and distribution are seeking persons trained in statistical methods and theory. Research groups are fast realizing the importance of statistical aids in planning experiments and in analyzing and computing results. Industry is placing increasing reliance on statistical methods to control the quality of goods in the process of manufacture and to determine the acceptability of goods already produced. Statistical procedures are becoming basic tools for making weather forecasts, crop and livestock estimates, business trend predictions, opinion polls and the like.

A graduate in Statistics will find abundant opportunities in any of the areas listed above—both in industry and with federal and state agencies.

CURRICULA — — — — —

Undergraduate

The degree of Bachelor of Science with a major in Experimental Statistics is offered under the Agricultural Science curriculum of the School of Agriculture.

Agricultural Science. In addition to the requirements of the Agricultural Science curriculum, the following courses are required:

Languages (6 Credits)

Credits

ENG 231	Basic Speaking Skills	3
ENG 321	Scientific Writing	3

Social Sciences and Humanities (6 Credits)

PHI 201	Logic	3
EC 201	Economics	3

Physical and Biological Sciences (23 Credits)

MA 101, 102	1st Year Mathematics for Engineers	9
CH 101, 103	General Inorganic and Qualitative Chemistry	8
PY 201	General Physics	5

Group A Courses (25 Credits)

MA 401	Differential Equations	3
MA 511a	Advanced Calculus	3
PY 202	General Physics	5
MA 405	Introduction to Determinants and Matrices	3
	Electives from "Minor Area" *	11

Departmental Requirements and Electives (25 Credits)

ST 361, 362	Introduction to Statistics	6
ST 521, 522	Basic Statistical Theory	8
MA 201, 202	Calculus I, II	8
	French, German, Spanish, or Russian	3

* An area of concentration should be chosen prior to the beginning of the Junior year. A program of not less than four related courses, including at least one 500-level course, should be scheduled in this area of concentration to provide familiarity with a scientific field to which Statistics could be applied.

Graduate

The Department of Experimental Statistics offers work leading to the Master of Science and Doctor of Philosophy degrees. There is a working arrangement with the Department of Biostatistics in the University's School of Public Health at Chapel Hill. Introductory courses of these two departments are coordinated so that it is easy for a beginning statistics student to transfer from one institution of the Consolidated University to another.

The Department has at least one staff member who consults with researchers in each of the following fields and who conducts his own research on statistical problems which are encountered: the various agricultural sciences, quantitative genetics, industry and engineering, physical sciences and social sciences. In addition there is active research in the general fields of experimental design and sample surveys.

FIELD CROPS

Williams Hall

Professor P. H. HARVEY, Head of the Department

Professors D. U. GERSTEL, W. C. GREGORY, K. R. KELLER, G. C. KLINGMAN, R. L. LOVVORN, T. J. MANN, P. A. MILLER, G. K. MIDDLETON, R. P. MOORE, J. C. RICE

Associate Professors C. A. BRIM, D. S. CHAMBLEE, G. L. JONES, LUTHER SHAW, D. L. THOMPSON

Assistant Professors I. T. CARLSON, W. A. COPE, J. W. DUDLEY, D. A. EMERY, W. T. FIKE, W. B. GILBERT, H. D. GROSS, G. R. GWYNN, J. A. LEE, W. M. LEWIS, F. W. MCLAUGHLIN, J. R. MAUNEY, D. E. MORELAND, L. L. PHILLIPS, C. L. RHYNE, JR., R. P. UPCHURCH

Instructors W. K. COLLINS, A. J. CROWLEY

OBJECTIVES

The curriculum in Field Crops aims at training the student in the fundamental principles of the plant sciences, along with the application of these principles to the problems of crop production.

The importance of agronomic training in North Carolina agriculture is shown by the fact that North Carolina ranks third among the states in cash income from farm crops. Yet the maximum potential production of farm crops has by no means been reached. With continued improvement in varieties, cultural practices and cropping methods, further advances will be made. In carrying out this broad program there is, and will continue to be, a real need in North Carolina for men well trained in plant breeding, crop production and management and related fields.

OPPORTUNITIES

Graduates in Field Crops are trained to fill positions as county extension agents; farm operators and managers; salesmen in seed and fertilizer companies and similar commercial concerns; seed analysts; and as leaders in various forms of agricultural development work. The Field Crops programs also offer training for those students who might want to continue their education with graduate study in preparation for extension, teaching or research positions with state or federal institutions or private industry.

CURRICULUM

Undergraduate

The degree of Bachelor of Science with a major in Field Crops can be earned under any of the three curricula in the School of Agriculture.

Agricultural Business. In addition to the requirements of the Agricultural Business curriculum, the following courses are required:

Group B Courses (24 Credits)

		<i>Credits</i>
AGC 303	Farm Management I	3
AGC 311	Marketing Agricultural Products, or	
AGC 342	Marketing Field Crops	3
EC 407	Business Law I	3
	Electives	15

Group A and C Courses (6 Credits)

GN 411	The Principles of Genetics	3
	Elective	3

Departmental Requirements and Electives (26 Credits)

FC 211	Field Crops I	3
FC 312	Pastures and Forage Crops	3
FC 414	Weeds and Their Control	3
BO 421	Plant Physiology	4
ENT 312	Economic Entomology	3
PP 315	Plant Diseases	3
SOI 200	Soils	4
SOI 302	Soils and Plant Growth, or	
SOI 341	Soil Fertility	3

Agricultural Science. In addition to the requirements of the Agricultural Science curriculum, the following courses are required.

Group A Courses (26 Credits)

		<i>Credits</i>
BO 312	General Bacteriology	4
GN 411	The Principles of Genetics	3
PP 315	Plant Diseases	3
MA 201	Calculus I, or	
MA 211	Analytic Geometry and Calculus B	3 or 4
	Electives*	12 or 13

Departmental Requirements and Electives (26 Credits)

FC 211	Field Crops I	3
FC 312	Pastures and Forage Crops	3
FC 414	Weeds and Their Control	3
BO 421	Plant Physiology	4
ENT 312	Economic Entomology	3
SOI 200	Soils, or	
SOI 302	Soils and Plant Growth	4
SOI 341	Soil Fertility and Fertilizers	3
	Elective	3

* Six credits may be elected from Groups B and C.

Agricultural Technology. In addition to the requirements of the Agricultural Technology curriculum, the following courses are required:

Group A and B Courses (9-12 Credits)

		<i>Credits</i>
GN 411	The Principles of Genetics	3
PP 315	Plant Diseases	3
	Electives	3-6

Group C Courses (9-12 Credits)

	Electives	9-12
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Departmental Requirements and Electives (27 Credits)

FC 211	Field Crops I	3
FC 311	Field Crops II	3
FC 312	Pastures and Forage Crops	3
FC 413	Plant Breeding	3
FC 414	Weeds and Their Control	3
RO 421	Plant Physiology	4
ENT 312	Economic Entomology	3
SOI 302	Soils and Plant Growth, or	
SOI 341	Soil Fertility and Fertilizers	3
	Elective	2

AGRICULTURE

The departments of Field Crops, Entomology and Plant Pathology offer a joint major in Plant Protection. See page 65 for details.

Graduate

The Department of Field Crops offers training leading to the degrees of Master of Science and Doctor of Philosophy in the following fields: plant breeding, crop production, forage crop ecology and weed control.

GENETICS — — — — —

Gardner Hall

Professor H. F. ROBINSON*, *Head of the Department*

Professors C. H. BOSTIAN, D. S. GROSCH, S. G. STEPHENS

Associate Professors C. CLARK COCKERHAM*, BEN W. SMITH

Assistant Professors D. F. MATZINGER*, L. E. METTLER, R. H. MOLL*

Assistant Geneticist KEN-ICHI KOJIMA*

Cooperating with the following Associate Members of the Faculty:

Animal Industry—D. U. DILLIARD, BARTON FARTHING, J. E. LEGATES,
H. A. STEWART

Botany—E. O. BEAL, JAMES W. HARDIN

Field Crops—P. H. HARVEY, C. A. BRIM, I. T. CARLSON, W. A. COPE, J.
W. DUDLEY, D. A. EMORY, D. U. GERSTEL, W. C. GREGORY, G. L. JONES,
K. R. KELLER, J. A. LEE, W. M. LEWIS, T. J. MANN, G. K. MIDDLETON,
P. A. MILLER, L. L. PHILLIPS, C. L. RHYNE, D. L. THOMPSON

Horticulture—F. D. COCHRAN, F. L. HAYNES, W. R. HENDERSON, D. T.
POPE, C. F. WILLIAMS

Plant Pathology—J. L. APPLE, RICHARD GWYN, T. T. HEBERT, E. L.
MOORE, R. R. NELSON, N. N. WINSTEAD

Poultry—E. W. GLAZENER, W. L. BLOW, G. A. MARTIN

Forestry—B. J. ZOBEL

* Joint appointments with the Department of Experimental Statistics.

OBJECTIVES — — — — —

The genetics faculty offers instruction at advanced undergraduate and graduate levels. The undergraduate courses are designed to support the other departments of the institution, giving students a background in the science of genetics. The graduate program is designed to train scientists for research and teaching careers in basic genetics and in its applications in plant and animal breeding.

CURRICULA — — — — —

Undergraduate

The faculty does not have a program leading to the Bachelor of Science degree.

Graduate

Graduate study is carried out under the direction of any of the members of the Genetics Faculty and enables the student to qualify for the Master of Science or the Doctor of Philosophy degree. A candidate for the Master's degree must acquire a thorough understanding of genetics and its relation to other biological disciplines and must present a thesis based upon his own research. In addition to a comprehensive knowledge of his field, a candidate for the doctorate must demonstrate his capacity for independent investigation and scholarship in genetics.

The basic aspects of quantitative genetics, cytogenetics, physiological genetics and mutation genetics as related to past and future evolution of organisms is the central theme of the training program and research. The

varied but coordinated interests of the genetics faculty with their research programs offers a variety of opportunities for graduate student training that is found at few other institutions. Experimental studies utilize organisms ranging from microbes, mice and drosophila to trees and economic farm animals.

HORTICULTURE

Kilgore Hall

Professor FRED D. COCHRAN, *Head of the Department*

Professors J. L. ETCHELLS, M. E. GARDNER, J. B. GARTNER, J. M. JENKINS, JR., I. D. JONES, G. O. RANDALL, C. F. WILLIAMS

Associate Professors F. L. HAYNES, JR., C. L. MCCOMBS, M. W. HOOVER, D. T. POPE, D. R. WALKER

Assistant Professors W. E. BALLINGER, T. F. CANNON, C. H. MILLER, R. J. SCHRAMM, JR.

Instructors F. E. CORRELL, V. H. UNDERWOOD

OBJECTIVES

The programs in horticulture offer training in basic principles of the plant sciences, along with the application of these principles to the production, breeding, handling and marketing of fruit, vegetable and ornamental crops, and also to the processing and utilization of fruits and vegetables.

The variations in climatic conditions in North Carolina are conducive to the production of a wide variety of horticultural crops which are distributed throughout the state as commercial enterprises and as home gardens. While these crops now represent an important segment of agriculture in the state, further expansion will be realized with development of adapted varieties, mechanization and intensification of cultural practices, and improvement of handling and marketing methods.

OPPORTUNITIES

Graduates in Horticulture will find numerous opportunities in a wide variety of positions in production, processing, and sales. Among these are County Extension Agents; farm operators; orchard, nursery, greenhouse and flower shop managers; research and promotional specialists with commercial seed, floral, fertilizer, chemical, and food companies and processing plants; inspectors and quality control technologists; USDA specialists; and as leaders in other phases of agricultural and industrial developments. In addition, the student may prepare himself for one of the many opportunities for graduate study.

CURRICULA

Undergraduate

The degree of Bachelor of Science with a major in Horticulture can be earned under any of the three curricula offered by the School of Agriculture. Under these curricula, specialized training is offered for horticulture majors in **Fruit and Vegetable Crops** and in **Ornamental Crops**; in addition, specialization in **Fruit and Vegetable Processing** is offered in the Agricultural Technology curriculum.

Agricultural Business. In addition to the basic requirements of the Agricultural Business Curriculum, the following courses are required for specialization in **Fruit and Vegetable Crops** or **Ornamental Crops**:

AGRICULTURE

Group B Courses (24 Credits)

	<i>Credits</i>
Electives	24

Group A and C Courses (6 Credits)

ENT 312	Economic Entomology	3
PP 315	Plant Diseases	3

Departmental Requirements and Electives (26 Credits)

CH 103	General and Qualitative Chemistry	4
SOI 200	Soils	4
	Electives	6

Four courses in Fruit and Vegetable Crops

HRT 321	Grading, Packing and Inspection of Fruits and Vegetables	3
HRT 421	Fruit Production	3
HRT 432	Vegetable Production	3
HRT 452	Principles of Fruit and Vegetable Processing	3
	OR	

Four courses in Ornamental Crops

HRT 311, 412	Nursery Practice; Outdoor Production of Floral Crops	
or		
HRT 441, 442	Commercial Floriculture	6
HRT 301	Plant Propagation	3
HRT 342	Landscape Gardening	
or		
HRT 331	Floral Design and Shop Management	3
		12

Agricultural Science. In addition to the basic requirements of the Agricultural Science Curriculum, the following courses are required for specialization in Fruit and Vegetable Crops or Ornamental Crops:

Group A Courses (26 Credits)

Group A Courses (20 Credits)		Credits
BO 312	General Bacteriology	4
BO 421	Plant Physiology	4
CH 203	Organic Chemistry	4
GN 411	Principles of Genetics	3
SOI 200	Soils	4
	Electives	7

Departmental Requirements and Electives (26 Credits)

ENT 312	Economic Entomology	3
PP 315	Plant Diseases	3
	Electives	8

Four courses in Fruit and Vegetable Crops

HRT 421	Fruit Production	3
HRT 432	Vegetable Production	3
HRT 452	Principles of Fruit and Vegetable Processing	3
HRT 562	Handling and Storage of Fruits and Vegetables	3
OR		

Four courses in Ornamental Crops

HRT 201, 202	Plant Materials	6
HRT 441	Commercial Floriculture	
or		
HRT 311	Nursery Practice	3
HRT 512	Handling and Storage of Ornamental Plants	3

12

Agricultural Technology. For specialization in **Fruit and Vegetable Crops** or **Ornamental Crops** the following courses are required in addition to the basic requirements of the Agricultural Technology curriculum.

Group A and B Courses (10 Credits)

		<i>Credits</i>
PO 421	Plant Physiology	4
GN 411	Genetics	3
PP 315	Plant Diseases	3

Group C Courses (11 Credits)

		<i>Credits</i>
SOI 341	Soil Fertility and Fertilizers	3
HRT 481	Breeding of Horticultural Plants	3
	Electives	5

Departmental Requirements and Electives (27 Credits)

ENT 312	Economic Entomology	3
	Electives	6

Six courses in Fruit and Vegetable Crops

AGC 364	Marketing of Fruits and Vegetables	3
HRT 321	Grading, Packing and Inspection of Fruits and Vegetables	3
HRT 421	Fruit Production	3
HRT 432	Vegetable Production	3
HRT 452	Principles of Fruit and Vegetable Processing	3
HRT 462	Grading and Inspection of Processed Fruits and Vegetables	2

OR

Six courses in Ornamental Crops

HRT 201, 202	Plant Materials	6
HRT 311	Nursery Practice	
or		

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HRT 442	Commercial Floriculture	3
HRT 342	Landscape Gardening	
or		
HRT 331	Floral Design and Shop Management	3
HRT 412	Outdoor Production of Floral Crops	
or		
HRT 441	Commercial Floriculture	3
HRT 512	Handling and Storage of Ornamental Plants	3
		18

For specialization in **Fruit and Vegetable Processing** the following courses are required in addition to the basic requirements of the Agricultural Technology curriculum.

Group A and B Courses (12 Credits)

Credits

PY 212	General Physics	4
CH 215	Quantitative Analysis	4
BO 421	Plant Physiology	4

Group C Courses (9 Credits)

Credits

AGE 331	Dairy Engineering	3
HRT 222	Introduction to Horticulture	3
	Elective	3

Departmental Requirements and Electives (27 Credits)

BO 312	General Bacteriology	4
CH 425, 426	Organic Chemistry	6
HRT 321	Grading, Packing and Inspection of Fruits and Vegetables	3
HRT 452	Principles of Fruit and Vegetable Processing	3
HRT 462	Grading and Inspection of Processed Fruits and Vegetables	2
HRT 562	Handling and Storage of Fruits and Vegetables	3
	Electives	6

Graduate

The Department of Horticulture offers the Master of Science degree and the professional degree, Master of Horticulture.

The professional degree is designed for those interested in application of current knowledge, while the M.S. degree places emphasis on research and provides a basis for later study on the Ph.D. degree.

PLANT PATHOLOGY

Gardner Hall

Professor D. E. ELLIS, Head of the Department

Professors C. N. CLAYTON, F. A. HAASIS, T. T. HEBERT, A. KELMAN, L. W. NIELSEN, C. J. NUSBAUM

Professor Emeritus S. G. LEHMAN

Associate Professors G. B. LUCAS, E. L. MOORE, J. N. SASSER, N. N. WINSTEAD

Assistant Professors J. L. APPLE, W. E. COOPER, HEDWIG HIRSCHMANN, D. M. KLINE, R. R. NELSON, N. T. POWELL

OBJECTIVES

Undergraduate instruction in Plant Pathology is designed to provide introductory and advanced courses in the nature and control of plant diseases to students majoring in field crops, horticulture, plant protection, agricultural education, and forestry, and to provide students with the fundamental training necessary for graduate study in plant pathology.

OPPORTUNITIES

Many opportunities for employment in research, extension and teaching are available to men with advanced degrees in the field of plant pathology. Openings are available for qualified men in research in the USDA, state experiment stations and in industry. The rapid development of agricultural chemicals and other methods for disease control offer numerous opportunities. (See Plant Protection Curriculum page 66).

CURRICULA

Undergraduate

The Plant Pathology department cooperates in the training of plant protection majors (See below), but does not offer a major in plant pathology at the undergraduate level.

Graduate

The M.S. and Ph.D. degrees are offered in this department.

PLANT PROTECTION MAJOR

The major in Plant Protection is a joint major in the departments of Entomology, Field Crops, and Plant Pathology.

OBJECTIVES

Students in Plant Protection will be trained in the application of chemical and biological principles for the control of plant diseases, insects and weeds. Crop losses from insects, weeds and diseases for the past several years have been estimated in excess of 10 billion dollars annually in the United States. A knowledge of the organisms to be controlled, the products to be used and the crops to be grown is basic to any control or regulatory program.

OPPORTUNITIES

Opportunities in Plant Protection basically involve improving farm efficiency to meet our ever-growing need for food and fiber. About 340 chemical companies are concerned with manufacturing and formulating pro-

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ducts for pest control. Technically trained men are needed for sales development and promotion of agricultural chemicals. Graduates are also trained to fill positions as county extension agents or as state and federal regulatory agents. This major is primarily intended for a B. S. degree. However, qualified students can go on to graduate school from this curriculum.

CURRICULUM

Undergraduate

The degree of Bachelor of Science with a major in Plant Protection is offered under the Agricultural Technology curriculum of the School of Agriculture.

Agricultural Technology. In addition to the requirements of the Agricultural Technology curriculum, the following courses are required:

Group A and B Courses (9-12 Credits)

		<i>Credits</i>
CH 425	Organic Chemistry	3
CH 426	Organic Chemistry	
or		
CH 451	Introductory Biochemistry	3
GN 411	The Principles of Genetics	3
	Electives	0-3

Group C Courses (9-12 Credits)

FC 211	Field Crops I	3
HRT 222	Introduction to Horticulture	3
	Electives	3-6

Departmental Requirements and Electives (27 Credits)

BO 421	Plant Physiology	4
BO 312	General Bacteriology	4
ENT 312	Economic Entomology	3
	Entomology Elective	3
PP 315	Plant Diseases	3
	Plant Pathology Elective	3
FC 414	Weeds and Their Control	3
	Electives	4

POULTRY SCIENCE

Scott Hall

Professor E. W. GLAZENER, Head of the Department

Professor C. W. BARBER

Professor Emeritus R. S. DEARSTYNE

Associate Professors T. T. BROWN, F. R. CRAIG, H. W. GARREN, C. H. HILL, J. W. KELLY

Assistant Professors W. L. BLOW, H. L. BUMGARDNER, F. W. COOK, D. FROMM, G. A. MARTIN

OBJECTIVES

The Department of Poultry Science has as its objectives training the student in the principles of poultry husbandry and related scientific fields, and the application of these principles to the poultry industry. These principles include the evaluation, preparation and processing of poultry and poultry products: breeding, nutrition and diseases; and management of commercial poultry enterprises.

Through teaching, research and extension, the department serves students, poultrymen and allied industries. Poultry is among the most rapidly expanding industries in North Carolina, and production has increased tremendously during the past few years.

----- **OPPORTUNITIES**

The demand for graduates in Poultry Science has increased greatly with the upswing in poultry production in the state. Graduates hold positions as managers and field representatives for feed manufacturers, processors, hatcheries, equipment companies, biological supply houses and other enterprises in poultry and allied industries. They also work in communications and public relations and as teaching, extension and research specialists. Several graduates have established their own poultry business.

----- **CURRICULA**

Undergraduate

The degree of Bachelor of Science with a major in Poultry Science can be obtained in any of the three curricula offered by the School of Agriculture.

Agricultural Business. In addition to the requirements of the Agricultural Business curriculum, the following courses are required:

Group A and C Courses (7 Credits)

		<i>Credits</i>
GN 411	The Principles of Genetics	3
CH 203	General and Organic Chemistry	4

Group B Courses (24 Credits)

Electives	24
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Departmental Requirements and Electives (27 Credits)

PO 201	Poultry Production	4
PO 301	Poultry Quality Evaluations	2
PO 401	Poultry Diseases	4
PO 402	Commercial Poultry Enterprises	4
PO 403	Poultry Seminar	1 + 1
PO 404	Poultry Products	3
PO 521	Poultry Nutrition	3
ZO 301	Animal Physiology	4

Agricultural Science. In addition to the requirements of the Agricultural Science curriculum, the following courses are required:

Group A Courses (26 Credits)

		<i>Credits</i>
BO 312	General Bacteriology	4
CH 451	Introductory Biochemistry	3
GN 411	The Principles of Genetics	3
ZO 301	Animal Physiology	4
	Electives*	12

Departmental Requirements and Electives (26 Credits)

PO 201	Poultry Production	4
PO 401	Poultry Diseases	4
PO 403	Poultry Seminar	1 + 1
PO 404	Poultry Products	3
PO 520	Poultry Breeding	3

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PO 521	Poultry Nutrition	3
PO 522	Endocrinology of the Fowl	3
ZO 561	Animal Embryology	4

* Six credits may be elected from Groups B and C.

Agricultural Technology. In addition to the requirements of the Agricultural Technology curriculum, the following courses are required:

Group A and B Courses (11 Credits)

Credits

ZO 301	Animal Physiology	4
GN 411	The Principles of Genetics	3
BO 312	General Bacteriology	4

Group C Courses (10 Credits)

Electives	10
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Departmental Requirements and Electives (27 Credits)

PO 201	Poultry Production	4
PO 301	Poultry Quality Evaluations	2
PO 401	Poultry Diseases	4
PO 402	Commercial Poultry Enterprises	4
PO 403	Poultry Seminar	1 + 1
PO 404	Poultry Products	3
PO 521	Poultry Nutrition	3
PO 520	Poultry Breeding	3
	Electives	2

Graduate

The M.S. degree is offered in Poultry Science with major studies in genetics, nutrition, veterinary pathology and physiology. Fundamental work in chemistry, biochemistry, physiology, bacteriology, statistics and fields that relate directly to the major interest are required as a part of the program for the M.S. degree.

PRE-VETERINARY — — — — —

A pre-veterinary curriculum is offered as part of a working agreement with two Southern veterinary colleges. After the completion of the prescribed work (usually 2 years) eight North Carolina students are selected each year to attend the University of Georgia and four to attend the Veterinary College at Oklahoma State University at in-state rather than out-of-state tuition rates.

The first year's work (up to 42 credits) at either Georgia or Oklahoma may be transferred back to North Carolina State College and counted toward graduation requirements for a B.S. degree from N. C. State in Zoology, Animal Industry or Poultry Science.

CURRICULUM — — — — —

The pre-veterinary program is offered under the Agricultural Science curriculum of the School of Agriculture.

Agricultural Science. The courses listed below are minimum requirements for all students applying for entrance to veterinary school under the Southern Regional Education Board contract. Only those students who complete the required courses successfully (grade of C or better on each) will be considered eligible to apply. An over-all 2.50 scholastic average or better is mandatory for application to Oklahoma State University.

Languages (9 Credits)

ENG 111, 112	English Composition	6
	English Elective	3

Social Science and Humanities (6 Credits)

HI 261	The U. S. in Western Civilization	3
PS 201	American Government System	3

Physical and Biological Sciences (36 Credits)

MA 111, 112	Algebra and Trigonometry; Analytic Geometry and Calculus A	8
CH 101, 103	General Inorganic Chemistry; General and Qualitative Chemistry	8
CH 203	General and Organic Chemistry	4
CH 451	Introductory Biochemistry	3
PY 211, 212	General Physics	8
BO 103	General Botany	4
ZO 103	General Zoology	4
ZO 223	Comparative Anatomy	4

Group C Courses (12 Credits)

AI 201	Elements of Dairy Science	4
AI 202	Fundamentals of Animal Husbandry	4
PO 201	Poultry Production	4

RURAL SOCIOLOGY

1911 Building

Professor C. HORACE HAMILTON, Head of the Department

Professor SELZ C. MAYO

Assistant Professors GLENN C. MCCANN, JAMES N. YOUNG

OBJECTIVES

The principal aim of this department is to teach students the principles and techniques for understanding human group behavior. More specifically the Department seeks (1) to train students to become leaders in organizing rural groups and communities and in administering their programs; (2) to qualify exceptional students on the undergraduate and graduate levels for rural sociological research, teaching and extension work; (3) to solve problems in human group relations through scientific research; and (4) to extend research results to the people of the state.

OPPORTUNITIES

Graduates of this Department may obtain employment as community organization specialists, county agents, social welfare workers, social statisticians, administrators and managers of both public and private social agencies, college teachers, research workers and many other capacities.

Among the institutions offering employment to graduates are land-grant colleges, agricultural experiment stations and extension services; the United States Departments of Agriculture, State, and Health Education and Welfare; state departments of welfare, health and education; farm journals and newspapers; voluntary social agencies, such as Red Cross, Community Chest and Boy Scouts; and rural fraternal organizations and co-

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operatives. The range of vocational pursuits open to rural sociology graduates is constantly widening.

CURRICULUM — — — — —

Undergraduate

The degree of Bachelor of Science with a major in Rural Sociology is offered under the Agricultural Science curriculum of the School of Agriculture.

Agricultural Science. In addition to the requirements of the Agricultural Science curriculum, the following courses are required:

Group A Courses (26 Credits)

		<i>Credits</i>
ST 311	Introduction to Statistics	3
GN 411	Principles of Genetics	3
MIG 120	Physical Geology	3
ST 302	Statistical Laboratory	2
	Electives*	15

Departmental Requirements and Electives (26 Credits)

SOC 202	Man and Society	3
RS 301	Sociology of Rural Life	3
SOC 301	Human Behavior	3
ANT 252	Cultural Anthropology	3
RS 321	Introduction to Social Research	2
RS 442	Rural Social Structure	3
	Electives	9

* Six Credits may be elected from Groups B and C. Additional electives may be chosen from Group D.

Graduate

The Master of Science and the Doctor of Philosophy degrees are offered by this Department. Graduate students studying for the Ph.D. degree are required to take approximately 15 semester hours in the Department of Sociology at the University of North Carolina, Chapel Hill, N. C. Students seeking the M.S. degree may take courses at Chapel Hill, but normally will be able to complete their entire programs at State College.

Advanced work in Rural Sociology provides training in a number of social sciences and prepares the graduate student for a wide variety of positions.

SOILS — — — — —

Williams Hall

- Professor J. W. FITTS, Head of the Department*
Associate Professor HOMER C. FOLKS, In Charge, Soils Teaching
Professors W. V. BARTHOLOMEW, N. T. COLEMAN, J. F. LUTZ, W. G. WOLTZ,
W. W. WOODHOUSE, JR.
Associate Professors E. J. KAMPRATH, C. B. MCCANTS, R. J. MCCrackEN,
A. MEHLICH, J. R. PILAND, W. H. RANKIN, R. J. VOLK
Assistant Professors MATTHEW GILBERT, E. F. GOLDSTON, W. A. JACKSON,
P. H. REID, S. B. WEED
Instructors D. L. CRAIG, A. H. HUNTER, E. O. SKOGLEY

OBJECTIVES

The primary objective of the Soils Department is to train students in the fundamental principles of soils, its utilization and management. Soils constitute one of the largest capital investments in farming and proper soil management is essential for efficient production. Therefore, the demand by educational, research and service agencies and by industry for men trained in soils should continue to be great.

OPPORTUNITIES

Soils graduates are trained to fill positions of leadership in many areas of agricultural work, such as County Extension agents; farm operators and managers; Soil Conservation Service representatives; technicians or salesmen in fertilizer companies. Provision is also made for those students who wish to obtain a more thorough training in mathematics, chemistry, physics and biological sciences in anticipation of graduate study. Students with advanced degrees have unlimited opportunities in teaching, research and extension with state and federal institutions as well as increasing opportunities with commercial concerns.

CURRICULA

Undergraduate

The degree of Bachelor of Science with a major in Soils is offered under all three of the curricula in the School of Agriculture.

Agricultural Business. In addition to the requirements of the Agricultural Business curriculum, the following courses are required:

Group B Courses (24 Credits)

	<i>Credits</i>
Electives	24

Group A and C Courses (6 Credits)

Electives	6
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Departmental Requirements and Electives (26 Credits)

MIG 120	Physical Geology	3
SOI 200	Soils	4
SOI 341	Soil Fertility and Fertilizers	3
SOI 302	Soils and Plant Growth	3
SOI 480	Senior Seminar	1
SOI 461	Soil Conservation and Management	3
SOI 452	Soil Classification	3
	Electives	6

Agricultural Science. In addition to the requirements of the Agricultural Science curriculum, the following courses are required:

Group A Courses (26 Credits)

		<i>Credits</i>
MA 201	Calculus I	4
MA 202	Calculus II	4
MIG 120	Physical Geology	3

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BO 312	General Bacteriology	4
BO 421	Plant Physiology	4
PY 212	General Physics	4
	Elective*	3

Departmental Requirements and Electives (26 Credits)

	Chemistry	12
SOI 200	Soils	4
SOI 480	Senior Seminar	1
SOI 341	Soil Fertility and Fertilizers	3)
SOI 302, 302L	Soils and Plant Growth	4)-9
SOI 461	Soils Conservation and Management	3)
SOI 452	Soil Classification	3)

* May be elected from Groups B and C.

Agricultural Technology. In addition to the requirements of the Agricultural Technology curriculum, the following courses are required:

Group A and B Courses (9-12 Credits)

	<i>Credits</i>
Electives	9-12

Group C Courses (9-12 Credits)

Electives	9-12
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Departmental Requirements and Electives (27 Credits)

MIG 120	Physical Geology	3
BO 312	General Bacteriology	4
BO 421	Plant Physiology	4
SOI 341	Soil Fertility and Fertilizers	3
SOI 302	Soils and Plant Growth	3
SOI 480	Senior Seminar	1
SOI 461	Soil Conservation and Management	3
SOI 452	Soil Classification	3
	Elective from Group A or B	3

Graduate

The Department of Soils offers training leading to the degrees of Master of Science and Doctor of Philosophy in the following fields: Soil Chemistry, Soil Fertility, Soil Physics, Soil Genesis and Soil Microbiology.

STATISTICS — — — — —

See EXPERIMENTAL STATISTICS

ZOOLOGY

Gardner Hall

Professor F. S. BARKALOW, JR., *Head of the Department*

Professors B. B. BRANDT, D. S. GROSCH, R. HARKEMA, T. L. QUAY

Assistant Professors W. W. HASSLER, E. M. LOWRY, J. A. SANTOLUCITO

Instructor G. C. MILLER

OBJECTIVES

The Department of Zoology at N. C. State is organized to serve three purposes: (1) It serves the schools of Agriculture, Forestry and Education by teaching courses of a fundamental nature essential to a complete understanding and mastery of applied science; (2) it provides training in zoology which prepares students for positions in industrial and governmental laboratories; (3) it provides undergraduate curricula leading to graduate and professional training in dentistry, medicine, veterinary medicine and advanced zoological sciences; (4) it furnishes potential leaders in the field of wildlife conservation and game management through a curriculum in Wildlife Biology.

OPPORTUNITIES

The zoology program is sufficiently flexible to provide the basic training for students who wish to continue their education at the graduate level, or its equivalent, in numerous special phases.

Five categories of positions are available to wildlife graduates: administrative, law enforcement, refuge, education and research. Agencies employing the majority of trained men are: state game and fish departments, U. S. Fish and Wildlife Service, U. S. Forest Service, U. S. Soil Conservation Service, U. S. National Park Service and other federal land-use departments.

Employment opportunities continue to be good, especially at the graduate level. No excess of wildlife graduates is anticipated in the immediate future.

Unusual advantages are offered by the wide range of natural environments in North Carolina's Coastal Plain, Piedmont and Mountain Regions. Close cooperation with the North Carolina Wildlife Resources Commission provides opportunities for observing developments in wildlife management on its 27 wildlife management and refuge areas.

CURRICULA

Undergraduate—Wildlife Biology

The Department of Zoology offers the degree of Bachelor of Science with a major in Wildlife Biology under the School of Agriculture's Agricultural Science curriculum.

Agricultural Science. In addition to the requirements of the Agricultural Science Curriculum, the following courses are required:

Languages (3 Credits)

Credits

ENG 231	Basic Speaking Skills	3
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Group A Courses (26 Credits)

ZO 205	Invertebrate Zoology	4
ZO 206	Vertebrate Zoology	4

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ZO 321	Wildlife and Natural Resource Conservation	3
	One course in Botany	3 or 4
	One course in Entomology	3
	Electives (from Botany, Chemistry, Soils, Geology, Entomology, Genetics, Mathematics and/or Statistics)	5 or 6
	Electives*	3

Departmental Requirements and Electives (26 Credits)

ZO 301	Animal Physiology	4
ZO 223	Comparative Anatomy	4
ZO 522	Animal Ecology	3
ZO 520	Fishery Science	3
ZO 551	Wildlife Science	3
ZO 521	Fishery Science, or	
ZO 552	Wildlife Science	3
	Advised Electives	6

* May be elected from Groups B and C.

Undergraduate—Zoology

The degree of Bachelor of Science with a major in Zoology is offered under the School of Agriculture's Agricultural Science curriculum.

Agricultural Science. In addition to the requirements of the Agricultural Science curriculum, the following courses are required:

Languages (3 Credits)

		<i>Credits</i>
ENG 231	Basic Speaking Skills	3

Group A Courses (26 Credits)

ZO 301	Animal Physiology	4
ZO 223	Comparative Anatomy	4
	One course in Entomology	3
	One course in Genetics	3
	One course in Botany	3 or 4
	Electives (from Botany, Entomology, Genetics, Mathematics, Physics and/or Statistics)	3
	Electives*	6

Departmental Requirements and Electives (26 Credits)

Four courses in Zoology	12-16
Advised electives	10-14

* May be elected from Groups B and C.

Graduate

The Master of Science and the Doctor of Philosophy degrees are offered in animal ecology and wildlife biology. Graduate programs leading to advanced degrees in the areas of animal parasitology and physiology can be arranged in cooperation with the Department of Zoology of the University of North Carolina at Chapel Hill.

— — — — — THE AGRICULTURAL EXPERIMENT STATION

D. W. Colvard, Dean of Agriculture
R. L. Lovvorn, Director of Research

— — — — — ESTABLISHMENT

The Agricultural Experiment Station was established in accordance with an Act of the General Assembly of 1877 and amended in 1955. The North Carolina General Assembly has allocated to the Station, annually, certain funds from the General Fund.

— — — — — OBJECTIVES

The purpose of the Agricultural Experiment Station is to study the basic laws of nature underlying agricultural enterprises and to develop methods for economic production of the highest grades of livestock, poultry and plants on the many soil types and under the varied conditions existing in North Carolina; to study methods for the control of parasitic insects and organisms that cause serious economic losses of animals, poultry and plants; to find and develop varieties of animals, poultry and plants new and resistant to diseases and the changeable conditions prevailing in the state; and to perfect better marketing for all agricultural products.

The staff of the Experiment Station conducts experiments in the green-houses and laboratories of the College, and throughout the state on areas owned by farmers, on nineteen strategically located experimental farms, and on farms rented for short periods.

The agricultural research aims, through the discovery of new facts, to improve the well-being of farmers throughout the state; to strengthen the regulatory work of the State Department of Agriculture; to develop new and necessary facts for the teaching of sound agricultural principles by vocational agricultural instructors, agricultural extension agents and agricultural instructors in the college.

The Agricultural Experiment Station staff brings to the College many experts, whose teaching in many specialized fields of agriculture assures the maintenance of curricula of high standards. It contributes much to the advanced training of students who are destined to become the leaders, teachers and investigators necessary in the maintenance of agriculture on sound and economic planes.

— — — — — PUBLICATIONS

The Agricultural Experiment Station publishes many bulletins and scientific papers on results of research conducted by the staff. These are free and are sent upon request to anyone in the state.

— — — — — SERVICES

The staff diagnoses and interprets many problems for the farmers of North Carolina. It holds council with farmers and others interested in the agricultural industry, presents radio programs devoted to the discussion of farming procedures, and writes many letters on more specific problems of agriculture at the request of farmers, members of garden clubs, and manufacturers of fertilizer, fungicides and insecticides. It also takes part in many of the administrative functions of the College.

COOPERATIVE AGRICULTURAL EXTENSION WORK — — —

D. W. Colvard, Dean of Agriculture
I. O. Schaub, Director Emeritus of Extension
David S. Weaver, Director of Extension

SUPPORT — — — — —

The Agricultural Extension Service of State College is conducted cooperatively with the United States Department of Agriculture and with the one hundred counties in North Carolina. Its work is supported by Federal funds derived from the Smith-Lever Act of 1914, the Capper-Ketcham Act of 1928, the Bankhead-Jones Act of 1935, the Bankhead-Flannagan Act of 1945, and by state and county appropriations. Federal and state appropriations are used to maintain an administrative and specialist staff and to supplement salaries and travel expenses of County Extension Agents, who are located at each county seat in the state.

OBJECTIVES — — — — —

The purpose of the Extension Service is to take to the rural people of North Carolina the latest and best information obtainable for building a more prosperous and satisfying life on the farm. In carrying out this purpose, the College maintains a staff of trained specialists, as system of county Agents and assistants, and Home Economics Agents who work with the farmer and his family and who administer a state-wide educational program. Work is also done with firms which furnish the tools and supplies for farm production and which market and process agricultural commodities. In these programs, the Extension Service employs a variety of methods and devices. These include method and result demonstrations for group meetings, a training program for farm leaders within the community, and close contact with organized clubs of men, women and young people. The service also publishes a great number of pamphlets, bulletins and circulars which it distributes free. In addition, it holds a number of short courses, both on the College campus and elsewhere throughout the state, to offer rural leaders advice and training in creating better homes and farms and in using more efficient farming practices.

SCHOOL OF DESIGN

HENRY L. KAMPHOEFNER, DEAN

INTRODUCTORY — — — — —

In 1948 the School of Design was organized through the combination of the existing Departments of Architecture and Landscape Architecture. The 1957 General Assembly appropriated funds for the establishment of a third Department of Product Design. The three departments are devoted and dedicated to the development of a native design and its accompanying art forms for the southern region.

The school in its teaching recognizes the dangers inherent in a materialist-mechanistic civilization where there may be an over-reliance on the machine and the mechanical devices available for use to man in his constructions for shelter. We give attention, therefore, to that larger responsibility of architecture, the art of humanizing the environment.

And, while the natural and organic aspects of design are stressed, the international and universal aspects of design are also respected and related to the humane patterns of life. We seek to integrate the architect as a social human being and the architect as scientist-engineer, and we encourage and nurture the architect-engineer as the coordinator of the structural dynamics in the over-all pattern of life.

While our first aim is to serve North Carolina and the regions of the South, we believe that our students will be equipped, through the teaching of the school, to work in any region.

Because character, a profound devotion, and an absolute professional commitment are prime ingredients of any creative activity where the social responsibilities are as vital as in architecture and design, we foster and cultivate the integrity of the individual.

Individual creative expression is emphasized as the epitome of good design, but teamwork is also encouraged and developed as a necessity of humane progress in the machine civilization of the day. We believe that the "prima donna" who isolates himself behind the intellectual barrier of his own self-sufficiency fails to recognize and understand the importance and necessity of the formal technique of compromise as a dominant factor of design as related to the social pattern of life—just as nature in all her workings adjusts to all pressures and all tensions.

The faculty of the School of Design have been selected for their individual and diverse personal philosophies and their individual yet divergent professional qualifications. We have brought together creative personalities willing in their teaching to subordinate their own professional interests to the pedagogically more important interests of their students. Here a community of scholars working each in his own way searches for the truth as he sees it, giving the young student the benefit of his professional knowledge, his technical training, and his experience as a citizen. We encourage the student to sift and sort this diversity of opinion, even though in this process he is usually stimulated and occasionally confounded. In the end we are confident that he arrives through this process at an ability to shape his own conclusions.

To combat the dangers of over-specialization we seek to develop the personality and character as a whole. The goal in the growth of the student is not only the mastery of the architectural techniques of the profession; but through the stimulation and development of the intellectual and emotional capacities together, a readiness is developed to meet the challenge of any environment.

The School of Design is intended to act as an educational center which unifies different design professions in the fundamental knowledge and methods which they share; its further intention is the education of men who will be competent within the specific demands and limitations of a particular professional field of design. The existence of contemporary design is considered to be a requirement of contemporary man, and the greatest purpose of contemporary design is considered to be the solution of those requirements through full use of the ingenuity and knowledge of contemporary man. Through this point of view the technical and factual aspects of design present no conflict with its philosophical and aesthetic standards, for one is but the particularization of the other. The course is based upon a belief in the basic ambivalence of the process of designing.

The three professional fields have been grouped under one broad and unified study of the methods and values which are common to all designers, and they are separated only in the study of their application in the work of a single profession. Many classes throughout the curricula will include students in these professional fields; and for all students the course of study is the same during the first year in order that, having become more familiar with the whole scope of activity in design, they may then select the design profession in which they are most interested. When this selection has been made, the unity of the school and frequent collaboration prevent the unnatural isolation of any professional group.

Training in drawing, painting, sculpture and other visual arts is conducted by specialists within the staff of the School of Design; the essential knowledge of techniques and materials is taught by this faculty and other departments of the college; and the past and present of the professions are taught by this faculty. These ingredients of design training are assimilated through their application in the design courses. Thus the student is required to combine these studies increasingly as he advances through the course so that he may achieve that comprehensive combination which is a necessity in the designer. Much of the student's work will be done in laboratory courses since design is a matter of the application of knowledge rather than its mere accumulation. From his first day in class to his last the student is asked to design and he is counseled so that he may become a responsible professional in the broadest sense.

CURRICULA

The School of Design offers professional instruction to the undergraduate in Architecture, Landscape Architecture and Product Design. A graduate program in all three departments is projected for the future.

DEGREES

The five-year curricula offer courses of study leading to the Bachelor of Architecture, the Bachelor of Landscape Architecture, and the Bachelor of Product Design.

FACILITIES

In January, 1956, the School of Design moved to Brooks Hall on the College Campus. Brooks Hall is the former Hill Library, built in 1928 and vacated in 1954 after a new million and a quarter dollar library for

the College was completed with State funds. The new Brooks Hall is a remodeling of 28,000 square feet of floor space and a new addition of 20,000 square feet. All of the facilities of the School are now in modern, especially designed quarters under one roof.

OPPORTUNITIES — — — — —

State law now requires the graduate architect to work not less than three years in the offices of registered architects and to pass the four day written examination given by the North Carolina Board of Architecture before he is ready to commence his own practice. The great national boom in building construction since World War II has brought a tremendous volume of work into the offices of the South, offering many attractive positions for the architectural graduate. The architectural graduate is also qualified for positions in certain branches of engineering, building research and teaching.

Usually the landscape architect practices in one of two ways. He may be a private practitioner with an office serving clients who come to him for help and advice in the same manner as a lawyer, engineer or architect; or he may be an employee of a private or public organization. Organizations commonly employing landscape architects include other practicing landscape architects; city planners; engineers; architects; national, state, and municipal recreation agencies; parkway and highway departments; housing agencies; planning commissions; conservation departments; and universities. Private concerns such as plant nurseries, private estates, botanical and zoological gardens, or construction companies may also employ landscape architects.

Testimony to the soundness of the course of study and program of North Carolina State College is reflected by two of the Department's recent graduates who have been awarded the Prix de Rome in Landscape Architecture—a prize awarded annually to any graduate landscape architect in the United States affording two years advanced study in Europe and providing all expenses and residence at the American Academy in Rome. Two recent graduates of the School have won the top academic award in architecture, the Paris Prize, which is a scholarship worth \$5,000 for a year's study in Europe and six months in the Western Hemisphere.

The new Department of Product Design, which took its first students in September 1958, will prepare graduates to work as resident designers with the furniture manufacturers and other essential and important industries of the State. The graduates of the new department will also be qualified to establish offices as professional industrial designers in the major cities of the State.

ARCHITECTURE — — — — —

Professors ROY GUSSOW, GEORGE MATSUMOTO

Visiting Professor HORACIO CAMINOS

Associate Professors JOSEPH H. COX, CECIL D. ELLIOTT, CHARLES H. KAHN,
DUNCAN R. STUART, EDWARD W. WAUGH

Assistant Professors GEORGE L. BIRELINE, JR., JOHN P. SHAW, FRED M.
TAYLOR

Visiting Assistant Professor PAUL M-J. BUISSON

Instructors ROBERT P. BURNS, JOHN HERTZMAN

Librarian MRS. JAMES A. LYONS

CURRICULUM

			Credits	
1	DN 101, 102	Design I, II	3	3
	DN 111, 112	Descriptive Drawing I, II	2	2
	DN 121, 122	Technical Drawing I, II	3	3
	ENG 111, 112	Composition	3	3
	MA 101, 102	First Year Mathematics for Engineers	5	4
	MS 101, 102	Military Science I		
	or	or		
	AS 121, 122	Air Science I	2	2
	PE 101, 102	Physical Education	1	1
			<hr/> 19	<hr/> 18

2	ARC 201, 202	Architectural Design I, II	4	4
	DN 211, 212	Descriptive Drawing III, IV	2	2
	EM 311	Mechanics I (Statics)	0	3
	HI 245, 246	History of Civilization	3	3
	MA 201	Calculus I	4	0
	PY 211, 212	General Physics	4	4
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			<hr/> 20	<hr/> 19

Summer Requirement: Two weeks on HISTORIC ARCHITECTURE RE-
SEARCH—Field Work.

3	ARC 300	Historic Architecture Research	0	2
	ARC 301, 302	Architectural Design III, IV	6	6
	ARC 312	Materials and Specifications	0	3
	CE 338, 339	Structures I, II	4	4
	DN 311, 312	Advanced Descriptive Drawing I, II	2	2
	DN 321, 322	History of Architecture I, II	3	3
	EM 321	Strength of Materials I	3	0
		Elective	3	0
			<hr/> 21	<hr/> 20

Summer requirement: 10 weeks on approved construction or office project
experience.

4	ARC 401, 402	Architectural Design V, VI	6	6
	ARC 421, 422	Structural Design I, II	3	3
	DN 411, 412	Advanced Descriptive Drawing III, IV	2	2
	DN 421, 422	History of Design I, II	3	3
	ME 377, 378	Building Mechanics A, B	3	3
		Elective	3	3
			<hr/> 20	<hr/> 20

DESIGN

5	ARC 501, 502	Architectural Design VII, VIII	7	9
	ARC 511	Professional Practice	2	0
	ARC 531, 532	Structural Design III, IV	2	2
	DN 541	Seminar on Ideas in Design	2	0
	PHI 306	Philosophy of Art	0	3
		Elective	6	6
			19	20

LANDSCAPE ARCHITECTURE — — — — —

Professors ROY GUSSOW, EDWIN G. THURLOW
Associate Professors JOSEPH H. COX, DUNCAN R. STUART
Visiting Associate Professor LEWIS J. CLARKE
Assistant Professor GEORGE L. BIRELINE, JR.

CURRICULUM — — — — —

			Credits	
1	DN 101, 102	Design I, II	3	3
	DN 111, 112	Descriptive Drawing I, II	2	2
	DN 121, 122	Technical Drawing I, II	3	3
	ENG 111, 112	Composition	3	3
	MA 101, 102	First Year Mathematics for Engineers	5	4
	MS 101, 102	Military Science I		
	or	or		
	AS 121, 122	Air Science I	2	2
	PE 101, 102	Physical Education	1	1
			19	18
2	ARC 201, 202	Architectural Design I, II	4	4
	BO 103	General Botany	4	0
	DN 211, 212	Descriptive Drawing III, IV	2	2
	HI 245, 246	History of Civilization	3	3
	MIG 120	Physical Geology	0	3
	PY 211, 212	General Physics	4	4
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			20	19

Summer Requirement: 2 weeks Historic Architecture or Landscape Architecture Research—Field work.

* Six credits of elective will be required in the literature of English and three in the Social Sciences. The remaining twelve hours shall be free electives. Total credits for Bachelor of Architecture—196.

3	ARC 300	Historic Architecture Research	0	2
	DN 311, 312	Advanced Descriptive Drawing I, II	2	2
	DN 321, 322	History of Architecture 1, II	3	3
	HRT 201, 202	Plant Materials	3	3
	LA 301, 302	Landscape Design I, II	5	5
	LA 311, 312	Landscape Construction	4	4
		Elective	3	0
			<hr/> 20	<hr/> 19
Summer Requirement: Ten weeks on approved construction or office project experience.				
4	BO 441	Plant Ecology	3	0
	DN 411, 412	Advanced Descriptive Drawing III, IV	2	2
	DN 421, 422	History of Design I, II	3	3
	LA 401, 402	Landscape Design III, IV	6	6
	LA 421, 422	Planting Design	4	4
		Electives	3	6
			<hr/> 21	<hr/> 21
5	DN 511, 512	Advanced Descriptive Drawing V, VI	2	2
	DN 541	Seminar on Ideas in Design	2	0
	LA 501, 502	Landscape Design V, VI	6	8
	LA 511	Landscape Construction & Professional Practice	4	0
	PHI 306	Philosophy of Art	0	3
		Electives	6	6
			<hr/> 20	<hr/> 19

* Six credits of elective will be required in the literature of English and six in the Social Sciences. The remaining twelve hours shall be free electives. Total Credits for the Bachelor of Landscape Architecture—196.

PRODUCT DESIGN

Associate Professor AUSTIN R. BAER, Head of the Department

Professor ROY GUSSOW

Associate Professors JOSEPH H. COX, DUNCAN R. STUART

Assistant Professor GEORGE L. BIRELINE, JR.

Instructor WILLIAM J. BARON

CURRICULUM

			Credits	
1	DN 101, 102	Design I, II	3	3
	DN 111, 112	Descriptive Drawing I, II	2	2
	DN 121, 122	Technical Drawing I, II	3	3
	ENG 111, 112	Composition	3	3
	MA 101, 102	First Year Mathematics for Engineers	5	4
	MS 101, 102	Military Science I		
	or	or		
	AS 121, 122	Air Science I	2	2
	PE 101, 102	Physical Education	1	1
			<hr/> 19	<hr/> 18

DESIGN

Credits

2	DN 211, 212	Descriptive Drawing III, IV	2	2
	HI 245, 246	History of Civilization	3	3
	IE 217	Machine Tools	1	0
	IE 218	Metal Forming	0	1
	MA 201	Calculus I	4	0
	PD 201, 202	Product Design & Orientation	4	4
	PSY 200	Introduction to Psychology	0	3
	PY 211, 212	General Physics	4	4
	MS 201, 202	Military Science II		
	or			
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			<hr/>	<hr/>
			21	20
3	CH 101, 103	General Inorganic & Qualitative Chemistry	4	4
	DN 311, 312	Advanced Descriptive Drawing I, II	2	2
	EC 425	Industrial Management	3	0
	EM 311	Mechanics (Statics)	3	0
	EM 312	Mechanics II (Dynamics)	0	3
	EM 321	Strength of Materials I	0	3
	PD 301, 302	Product Design	6	6
	PD 331, 332	Materials and Processes	3	3
			<hr/>	<hr/>
			21	21
4	DN 411, 412	Advanced Descriptive Drawing III, IV	2	2
	IE 301	Engineering Economy	2	0
	IE 425	Sales and Distribution Methods	0	2
	PD 401, 402	Advanced Product Design	6	6
	PD 422	Office and Industrial Practice	0	2
	PD 441, 442	Design Analysis	2	2
		Electives	9	6
			<hr/>	<hr/>
			21	20
5	DN 511, 512	Advanced Descriptive Drawing V, VI	2	2
	DN 541	Seminar on Ideas in Design	2	0
	PD 501	Advanced Product Design	6	0
	PD 502	Product Design Thesis	0	8
	PSY 441	Human Factors in Equipment Design	0	3
	PSY 464	Visual Perception for Designers	3	0
		Electives	6	3
			<hr/>	<hr/>
			19	16

* Six credits will be required in the literature of English and six in the Social Sciences. The remaining twelve hours shall be free electives. Total credits for the Bachelor of Product Design—196.

SCHOOL OF EDUCATION

J. BRYANT KIRKLAND, DEAN

INTRODUCTORY

The maximal social and economic development of the citizenry of North Carolina is dependent to a great extent upon the contributions of its educational institutions. The current and anticipated increase in the population of secondary school age youth necessitates a greater number of competent teachers in the public schools of North Carolina, particularly in the areas of vocational agriculture, industrial arts, industrial education, mathematics and science.

The School of Education comprises the following departments: Agricultural Education, Industrial Arts, Industrial Education, Industrial and Rural Recreation, Mathematics and Science Education, Occupational Information and Guidance, and Psychology.

The Department of Agricultural Education is the only one in this state that prepares teachers of vocational agriculture to conduct organized instructional programs of vocational agriculture for prospective and present farmers.

If the youth of North Carolina, particularly those in the non-farm areas, are to become familiar with the increasingly available occupational opportunities which accompany an industrial expansion and are to be given the training needed for entrance into the industrial occupations of their choice, public schools will need to employ a larger number of competent teachers of Industrial Arts and Industrial Education.

The acute shortage of persons qualified to teach Mathematics and Science in the public schools and the demand for graduates with Mathematics and Science backgrounds in industrial positions have made employment opportunities in these areas very good.

Improved methods in industry and the use of mechanized equipment on farms have resulted in more leisure time on the part of urban and rural workers and their families. The Department of Industrial and Rural Recreation contributes much to a better use of this leisure time by training recreational leaders for the municipalities, industries and rural areas of the state.

The Department of Occupational Information and Guidance provides the public schools with teachers and vocational counselors who render valuable assistance to high school youth in making wise vocational choices.

The Department of Psychology serves the various industries in the state by helping to improve their personnel selection programs and by conducting research designed to ascertain what factors influence efficiency of industrial employees.

The primary purpose of the Departments of Agricultural Education, Industrial Arts, Industrial Education, Mathematics and Science Education is that of preparing students to become teachers in North Carolina's public schools. Satisfactory completion of the curriculum requirements in any of these departments qualifies a graduate to receive an A Grade certificate to teach in his chosen subject matter area.

The curriculum in Industrial and Rural Recreation is designed primarily to prepare students to become leaders of recreation programs in industry, institutions and rural areas.

The Departments of Psychology and Occupational Information and Guidance offer service courses for undergraduate students in the School of Education and other schools. These departments are primarily concerned, however, with offering professional instruction at the graduate level for Industrial Psychologists and Vocational Counselors.

CURRICULAR OFFERINGS AND DEGREES

Upon the satisfactory completion of one of the undergraduate curricula in the School of Education, a student is eligible to receive the degree of Bachelor of Science with the name of his area of specialization: in Agricultural Education, Industrial Arts, Industrial Education, Industrial and Rural Recreation, Mathematics Education and Science Education.

The Master of Agricultural Education, Industrial Arts Education, Industrial Education and Occupational Information and Guidance is awarded to students in Education who meet the general requirements of the Graduate School and the specific requirements of the respective departments in which graduate work is taken. Graduate students enrolled in any of the above departments and Psychology who wish to engage in more concentrated study in their major field of interest and to conduct research in this field may earn a research degree—Master of Science—in their respective department of specialization. The specific requirements for undergraduate and graduate degrees are included in the departmental write-ups on pages 79-93.

AGRICULTURAL EDUCATION

Professor C. C. SCARBOROUGH, Head of the Department

Professor Emeritus LEON E. COOK

Professors J. K. COGGIN, J. B. KIRKLAND

Associate Professor G. B. JAMES

Instructors HARRY G. BEARD, JAMES T. HORNER

OBJECTIVES

The Department of Agricultural Education is responsible for supplying the public schools with an adequate number of competent teachers of vocational agriculture. Since most of his work as a teacher of vocational agriculture will be done with farm people, the student planning to teach should have lived on the farm. If he is not farm-reared, he will be expected to secure farm experience before he graduates. Enrollment in vocational agriculture in high school with a good supervised farming program contributes to his preparation for teaching vocational agriculture.

The Agricultural Education department provides professional training for students who plan to teach vocational agriculture in high schools. Some graduates, however, go into other work in agriculture, and others do graduate work in agricultural education.

OPPORTUNITIES

There is a great need for teachers of vocational agriculture in North Carolina, with every indication that the demand will be greater in the future. At present, there are 489 white teachers of vocational agriculture in 99 counties in the state. The program is one of the largest in the United States.

GRADUATE STUDY

The department provides opportunities for fully qualified students to do graduate work in Agricultural Education. Graduate students in this field may qualify for either the Master of Science degree or for the degree of Master of Agricultural Education. Detailed information concerning these degrees may be secured from the Department of Agricultural Education or from the Dean of the Graduate School.

EDUCATION

CURRICULUM IN AGRICULTURAL EDUCATION — — — — —

			Credits	
1	AG 101	Agriculture and World Affairs	3	0
	AGE 201	Farm Shop Woodwork	2	0
	AGE 202	Farm Shop Metalwork	0	2
	ED 101	Introduction to Agricultural Education	1	0
	ED 102	Objectives in Vocational Agriculture	0	1
	ENG 111, 112	Composition	3	3
	MA 111	Algebra and Trigonometry	4	0
	PO 201	Poultry Production	0	4
	ZO 101	General Zoology	0	3
	MS 101, 102	Military Science I or		
	or			
	AS 121, 122	Air Science I	2	2
	PE 101, 102	Physical Education	1	1
			<hr/> 16	<hr/> 16
2	AGE 211	Farm Power and Machinery I	0	3
	BO 101, 102	General Botany	3	3
	CH 101	General Inorganic Chemistry	4	0
	CH 203	General and Organic Chemistry	0	4
	EC 201	Economics	0	3
	ED 201	FFA in Vocational Agriculture	0	1
	REC 251	Social Recreation	0	3
	MS 201, 202	Military Science II or		
	or			
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
		History Elective	3	0
		Agriculture Electives	5	0
			<hr/> 18	<hr/> 20
3	AGC 212	Economics of Agriculture	3	0
	AGC 303	Farm Management I	0	3
	ED 313	Organizing Programs of Vocational Agriculture	0	3
	ED 344	Secondary Education	0	2
	PY 211	General Physics	4	0
	PSY 304	Educational Psychology	3	0
	PSY 476	Psychology of Adolescence	0	2
	RS 301	Sociology of Rural Life	3	0
	SOI 200	Soils	4	0
		Agricultural Engineering Elective	0	3
		English Elective	0	3
		Free Electives	3	3
			<hr/> 20	<hr/> 19

4	AGE 401	Farm Shop Organization and Management	3	0
	ED 411	Student Teaching in Agriculture	6	0
	ED 412	Teaching Adults	2	0
	ED 413	Teaching Materials	2	0
	ED 420	Principles of Guidance	0	2
	ED 430	Senior Seminar	0	1
	RS 321	Introduction to Social Research	2	0
		Biological Science Elective	0	3
		Agriculture Electives	0	6
		English Elective	0	3
		Political Science Elective	0	3
		Free Electives*	3	3
			18	21

Student Teaching in Fall Semester only.

Summer Practice (2 weeks) is required prior to senior year.

* Students taking advanced ROTC will take 18 hours fall semester; other students will get the 3-hour free elective some other semester.

INDUSTRIAL ARTS

Professor IVAN HOSTETLER, *Head of the Department*

Associate Professor TALMAGE B. YOUNG

Assistant Professors HAL MASSEY, ROBERT T. TROXLER

Instructor ROBERT L. FORD

OBJECTIVES

Industrial Arts comprises that area of education which concerns itself with materials, processes, and products of industry. It is concerned with a study of changes made in materials to make them more useful and with the problems related to these changes. The processes involved in changing these materials to useful products constitute the laboratory work in an Industrial Arts Program.

Students, therefore, should have an active interest in industrial materials, processes, products and problems in such areas as woods, metals, electricity, ceramics, graphic arts and plastics. They should enjoy working with hand and machine tools. A wide range of technical skills, practical experience and a knowledge of labor and labor problems is very important.

The Department of Industrial Arts at North Carolina State College performs two functions: First, it prepares teachers and supervisors of industrial arts for secondary schools, and second, it provides practical training for students interested in technical jobs in industry, such as industrial work in production, personnel, sales, estimating, job training and safety.

OPPORTUNITIES

The opportunities for employment as industrial arts teachers in North Carolina are greater than ever before. Less than one-fourth of the public schools have teachers of industrial arts. The demand for industrial employment is also very great.

GRADUATE STUDY

Opportunities are provided for students fully qualified to do graduate work leading to the degree of Master of Industrial Arts Education or Master of Science in Industrial Arts Education. For additional information regarding graduate study, the Graduate School Catalog should be consulted.

EDUCATION

CURRICULUM IN INDUSTRIAL ARTS — — — — —

			Credits	
1	ENG 111, 112	Composition	3	3
	HI 252	The United States Since 1865	0	3
	IA 100	Introduction to Industrial Arts	1	0
	IA 103, 104	Industrial Arts Drawing	3	3
	IA 107, 108	General Woodwork	3	3
	MA 111	Algebra and Trigonometry	4	0
	MA 122	Mathematics of Finance	0	4
	MS 101, 102	Military Science I		
		or		
	AS 121, 122	Air Science I	2	2
	PE 101, 102	Physical Education	1	1
			<hr/> 17	<hr/> 19
2	CH 101	General Inorganic Chemistry	4	0
	EC 201	Economics	0	3
	ENG 231	Basic Speaking Skills	0	3
	IA 205	Industrial Arts Design	2	0
	IA 206, 207	General Metalwork	3	3
	PS 201	The American Governmental System	3	0
	PY 211, 212	General Physics	4	4
	SOC 202	Man and Society	0	3
	MS 201, 202	Military Science II		
		or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			<hr/> 19	<hr/> 19
3	ED 344	Secondary Education	2	0
	ED 422	Methods of Teaching Industrial Subjects	0	4
	IA 304	General Shop Organization	0	2
	IA 306	Graphic Arts	0	3
	IA 307	General Electricity	3	0
	IA 308	Industrial Arts Electronics	0	3
	IA 320	Tools and Materials	2	0
	PSY 304	Educational Psychology	3	0
	PSY 476	Psychology of Adolescence	0	2
		English Elective	3	0
		Electives	6	3
			<hr/> 19	<hr/> 17
4	FD 420	Principles of Guidance	0	2
	FD 424	Occupational Studies	0	2
	ED 444	Student Teaching in Industrial Subjects	6	0
	FD 482	Curriculum Problems in Industrial Arts	2	0
	ED 483	Instructional Aids and Devices	2	0
	IA 315	General Ceramics	0	3
	IA 460	General Shop	3	0
	IA 484	School Shop Planning & Equipment Selection	3	0
		Electives	3	12
			<hr/> 19	<hr/> 19

CURRICULUM IN INDUSTRIAL ARTS—TECHNICAL OPTION

Freshman and Sophomore Years Same as in Industrial Arts Education

3	EC 202	Economics	3	0
	IA 307	General Electricity	3	0
	IA 308	Industrial Arts Electronics	0	3
	IA 321	Metalwork Technology	0	2
	IE 310	Industrial Safety	2	0
	IE 332	Motion and Time Study	4	0
	PSY 200	Introduction to Psychology	3	0
	PSY 337	Industrial Psychology I	0	3
	SOC 301	Human Behavior	0	3
		English Elective	0	3
		Electives	3	6
			<hr/> 18	<hr/> 20
4	EC 425	Industrial Management	3	0
	EC 426	Personnel Management	0	3
	EC 432	Industrial Relations	3	0
	ED 424	Occupational Studies	0	2
	IA 320	Tools and Materials	2	0
	IA 580	Modern Industries	0	2
	IE 408	Production Control	3	0
	IE 430	Job Evaluation and Wage Administration	0	3
		Electives	6	9
			<hr/> 17	<hr/> 19

INDUSTRIAL EDUCATION**OBJECTIVES**

The Department of Industrial Education is the only one in the state that prepares teachers of Industrial Education for the public schools. The main goal is to provide public schools with adequately trained personnel who can, in turn, help to develop a vitally needed reservoir of skilled workers and technical personnel to man established industries as well as prepare for new industries. The curriculum is planned to provide students with broad cultural and professional backgrounds to parallel occupational experience.

Candidates for a degree must have had at least two years of successful trade experience in the trade they wish to teach. The student who has not had this trade experience when he enters must fulfill the requirement before graduation either by working part of the school year or by completing the work experience after finishing the required resident courses.

OPPORTUNITIES

The student who completes this curriculum will be prepared to teach in the all-day trade schools, area vocational schools and the part-time, or evening vocational classes. Graduates have no difficulty in obtaining employment as Industrial Education teachers.

GRADUATE STUDY

General and specialized professional courses are available to qualified students who wish to pursue graduate study as Industrial Education teachers, supervisors or coordinators of diversified occupations. The com-

EDUCATION

pletion of the Master of Industrial Education or Master of Science degree in Industrial Education will also qualify one for a Graduate Certificate in North Carolina.

CURRICULUM IN INDUSTRIAL EDUCATION — — — — —

A minimum of 148 semester credits required for graduation

			Credits	
1	ED 100	Introduction to Industrial Education	2	0
	ENG 111, 112	Composition	3	3
	HI 252	The United States Since 1865	0	3
	IA 103, 104	Industrial Arts Drawing	3	3
	MA 111	Algebra and Trigonometry	4	0
	MA 122	Mathematics of Finance	0	4
	MS 101, 102	Military Science I		
	or	or		
	AS 121, 122	Air Science I	2	2
	PE 101, 102	Physical Education	1	1
		Electives*	2	3
			17	19
2	CH 101	General Inorganic Chemistry	4	0
	EC 201	Economics	0	3
	ENG 231	Basic Speaking Skills	3	0
	PS 201	American Governmental System	3	0
	PY 211	General Physics	0	4
	SOC 202	Man and Society	3	0
	SOC 301	Human Behavior	0	3
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			3	6
			19	19
3	EC 202	Economics	3	0
	EC 312	Accounting for Engineers	0	3
	ED 308	Visual Aids	0	2
	ED 344	Secondary Education	2	0
	ED 422	Methods of Teaching Industrial Subjects	0	4
	IE 310	Industrial Safety	2	0
	PSY 304	Educational Psychology	3	0
	PSY 476	Psychology of Adolescence	0	2
	REC 333	First Aid and Safety	2	0
		English Elective	0	3
		Electives	7	3
			19	17

4	ED 420	Principles of Guidance	0	2
	ED 440	Vocational Education	2	0
	ED 444	Student Teaching in Industrial Subjects	6	0
	ED 483	Instructional Aids and Devices	2	0
	ED 516	Community Occupational Surveys	0	2
	ED 524	Occupational Information	0	2
	ED 525	Trade Analysis and Course Construction	2	0
	ED 527	Philosophy of Industrial Education	0	2
	PSY 337	Industrial Psychology	0	3
		Electives*	6	8
			<hr/>	<hr/>
			18	19

* Electives to be selected with aid of advisor to meet special needs of individual students.

— — — — — INDUSTRIAL AND RURAL RECREATION

Professor THOMAS I. HINES, *Head of Department*

Associate Professor LATHAM L. MILLER

Assistant Professors CHARLES C. STOTT, ALBERT CRAWFORD

— — — — — OBJECTIVES

The Department of Industrial and Rural Recreation provides training for students who plan to become recreation leaders in industry, municipalities, institutions and rural communities. The recreation profession recognizes the importance of leaders who possess the competence needed to plan and supervise effective recreation programs. Competent leadership is the major factor affecting the scope, intensity and success of a program of organized recreation. A curriculum in Park Administration is also offered for students who plan to engage in the administration of local, county or state parks.

All students pursue the same program for the first year after which they declare an option (Employee, Public, Institutional or Park Administration) and take courses designed to meet the needs in their respective area of specialization.

— — — — — OPPORTUNITIES

The demand for properly trained recreation leadership has increased rapidly in recent years. The number of graduates has not been sufficient to meet the demand for recreation leaders.

— — — — — CURRICULUM OF INDUSTRIAL AND RURAL RECREATION

A minimum of 149 semester credits required for graduation.

			Credits	
1	ENG 111, 112	Composition	3	3
	HI 252	U. S. History Since 1865	3	0
	MA 111	Algebra and Trigonometry	4	0
	PS 201	American Governmental System	0	3
	REC 152	Introduction to Recreation	3	0
	REC 153	Aquatic Sports	0	2
	SOC 202	Man and Society	0	3
	ZO 101, 102	General Zoology	3	3
	MS 101, 102	Military Science I		
	or			
	AS 121, 122	Air Science I **	2	2
	PE 101, 102	Physical Education **	1	1
			<hr/>	<hr/>
			19	17

EDUCATION

CURRICULUM IN RECREATION ADMINISTRATION — — — — —

1 For Freshman year see page 85.

			Credits	
2	EC 201, 202	General Economics	3	3
	ENG 215	Principles of News and Article Writing	0	3
	ENG 231	Basic Speaking Skills	3	0
	REC 201	Playground Leadership	2	0
	REC 251	Social Recreation I	3	0
	REC 252	Social Recreation II	0	3
	REC 253	Principles of Physical Education	0	3
	SOC 301	Human Behavior	0	3
	ZO 212	Human Anatomy	3	0
	ZO 213	Human Physiology	0	3
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II**	2	2
	PE 201, 202	Physical Education**	1	1
			<hr/>	<hr/>
			17	21

3	MA 122	Mathematics of Finance		
	or			
	EC 312	Accounting for Engineers	0	4
	PSY 200	Introduction to Psychology		
	or			
	PSY 304	Educational Psychology	3	0
	REC 333	First Aid and Safety	2	0
	REC 351	Individual Sports in Recreation	3	0
	REC 352	Team Sports in Recreation	0	3
	REC 353	Camp Organization and Leadership	0	3
	REC 354	Personal and Community Hygiene	3	0
			Electives*	
			8	11
			<hr/>	<hr/>
			19	21

4	REC 451	Facilities and Equipment	3	0
	REC 452	Recreation Administration	3	0
	REC 470	Supervised Practice	0	6
	REC 471	Organizing the Recreation Program	2	0
	REC 472	Observation and Field Experience	0	2
		Electives*	10	9
			<hr/>	<hr/>
			18	17

* At the end of the sophomore year, a student must select an area of special interest. At least 24 semester hours of course work must be taken from the list of elective courses in the chosen area.

** Students excused from Military or Air Science and/or Physical Education will schedule equivalent credits in courses from the following departments: Economics, English, History and Political Science, Modern Languages, Philosophy and Religion, Psychology, Rural Sociology, Social Studies and Sociology.

Field Work: Evidence of at least four months of satisfactory experience in the practice of his profession is required for graduation.

Elective Courses

Employee Recreation	EC 319	Money and Banking	3
	EC 401	Principles of Accounting	3
	EC 402	Principles of Accounting	3
	EC 407	Business Law I	3
	EC 411	Marketing Methods	3
	EC 412	Sales Management	3
	EC 420	Corporation Finance	3
	EC 425	Industrial Management	3
	EC 426	Personnel Management	3
	EC 431	Labor Problems	2
	EC 432	Industrial Relations	2
	ED 308	Visual Aids	2
	PSY 302	Psy. of Personality and Adjustment	3
	PSY 337	Industrial Psychology I	3
	PSY 438	Industrial Psychology II	3
	PSY 490	Social Psychology	3
	REC 401	Principles & Practice of Industrial Recreation	2
	SOC 302	Public Relations in Modern Society	3
	SOC 501	Leadership	3
Public Recreation	ED 308	Visual Aids	2
	ED 420	Principles of Guidance	2
	IA 314	Recreation Arts & Crafts	2
	PS 202	County and Municipal Government	3
	PS 502	Public Administration	3
	PSY 476	Psychology of Adolescence	2
	REC 207	History and Principles of Park Administration	2
	REC 301	Organization and Administration of Physical Education	2
	REC 315	Prevention and Care of Athletic Injuries	2
	REC 325	Activities for the Handicapped Individual	2
	REC 411	Park Maintenance and Operation I	2
	REC 412	Park Maintenance and Operation II	2
	SOC 302	Public Relations and Modern Society	3
	SOC 305	Race Relations	3
	SOC 402	City Life	3
	SOC 411	Community Relationships	3
	ZO 312	Principles of Game Management	3
Institutional Recreation	ED 308	Visual Aids	2
	IA 314	Recreation Arts and Crafts	2
	PHI 305	Philosophy of Religion	3
	PS 202	County and Municipal Government	3
	PS 502	Public Administration	3
	PSY 302	Psychology of Personality and Adjustment	3
	PSY 307	General Applied Psychology	2
	PSY 476	Psychology of Adolescence	2

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PSY 490	Social Psychology	3
PSY 530	Abnormal Psychology	3
REC 301	Organization and Administration of Physical Education	2
REC 315	Prevention and Care of Athletic Injuries	2
REC 325	Activities for Handicapped Individuals	2
SOC 302	Public Relations and Modern Society	3
SOC 304	Contemporary Family Life	3
SOC 306	Delinquency and Crime	3
SOC 412	Introduction to Social Work	3

CURRICULUM IN PARK ADMINISTRATION — — — — —

1 For Freshman year see page 85.

			Credits
2	BO 101, 102	General Botany	3 3
	EC 201, 202	General Economics	3 3
	ENG 215	Principles of News & Article Writing	0 3
	ENG 231	Basic Speaking Skills	3 0
	PS 202	County and Municipal Government	0 3
	PSY 200	Introduction to Psychology	0 3
	REC 207	History & Prin. of Park Administration	2 0
	REC 251	Social Recreation I	3 0
	REC 333	First Aid and Safety	2 0
	ZO 252	Ornithology	0 3
	MS 201, 202	Military Science II	
	or	or	
	AS 221, 222	Air Science II**	2 2
	PE 201, 202	Physical Education**	1 1
			<hr/> 19 21

3	AGE 201	Farm Shop Wood Work	2 0
	AGE 202	Farm Shop Metal Work	0 2
	BO 211	Dendrology	2 0
	BO 403	Introduction to Systematic Botany	0 3
	MA 122	Mathematics of Finance	
	or	or	
	EC 312	Accounting for Engineers	0 4
	MIG 120	Physical Geology	0 3
	PSY 302	Psychology of Personality and Adjustment	3 0
	REC 351	Individual Sports in Recreation	3 0
	REC 352	Team Sports in Recreation	0 3
	ZO 321	Wildlife and Natural Resource Conservation	0 3
		Electives	6 3
			<hr/> 16 21

4	AGE 341	Farm Electrification and Utilities	3	0
	BO 441	Plant Ecology	3	0
	EC 426	Personnel Management	0	3
	REC 353	Camp Organization and Leadership	3	0
	REC 354	Personal and Community Hygiene	3	0
	REC 411, 412	Park Maintenance and Operation	2	2
	REC 451	Facilities and Equipment	0	3
	REC 452	Recreation Administration	3	0
	REC 471	Organizing the Recreation Program	0	2
	ZO 522	Animal Ecology	0	3
		Electives	3	3
			<hr/> 20	<hr/> 16

** Students excused from Military or Air Science and/or Physical Education will schedule equivalent credits in courses from the following departments: Economics, English, History and Political Science, Modern Languages, Philosophy and Religion, Psychology, Rural Sociology, Social Studies and Sociology.

Field Work: Evidence of at least four months of satisfactory experience in the practice of his profession is required for graduation.

— — — — — MATHEMATICS AND SCIENCE EDUCATION

Assistant Professor HERBERT E. SPEECE, *Head of the Department*

— — — — — OBJECTIVES

The Department of Mathematics and Science Education offers curricula for those students who wish to become teachers of Mathematics or Science. Each curriculum provides for a well rounded professional preparation. There is sufficient flexibility in each curriculum to enable the student to meet certification requirements in both subject matter areas by proper selection of elective courses. This flexibility also enables the student to specialize in one subject matter area thus opening up job opportunities in related fields requiring a substantial background in Mathematics and Science, such as research teams in industry, government research projects involving rockets, guided missiles, computers or pure research.

— — — — — OPPORTUNITIES

The acute shortage of Mathematics and Science teachers in the secondary schools provides excellent employment opportunities for more graduates in this department. Attractive job opportunities are also available for industrial employment. The rapid technological and scientific developments during the past few years have accentuated the importance of mathematics and science. Future developments will depend upon the accomplishments of persons who have received adequate training in these areas.

— — — — — CURRICULUM IN MATHEMATICS EDUCATION

A minimum of 144 credits required for graduation

			Credits	
1	CH 101	General Inorganic Chemistry	4	0
	CH 103	General and Qualitative Chemistry	0	4
	ENG 111, 112	Composition	3	3
	HI 252	The United States since 1865	3	0
	MA 101, 102	First Year Mathematics for Engineers	5	4
	PS 201	The American Governmental System	0	3
	MS 101, 102	Military Science I		
	or	or		
	AS 121, 122	Air Science	2	2
	PE 101, 102	Physical Education	1	1
			<hr/> 18	<hr/> 17

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			Credits	
2	ED 203	Introduction to Teaching	2	0
	IA 103	Industrial Arts Drawing	3	0
	MA 201, 202	Calculus I, II	4	4
	PY 211, 212	General Physics	4	4
	SOC 202	Man and Society	0	3
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
		Electives*	3	5
			<hr/>	<hr/>
			19	19
3	CE 201	Surveying or		
	PY 223	Astronomy	0	3
	EC 201, 202	Economics	3	3
	ED 308	Visual Aids	0	2
	ED 344	Secondary Education	0	2
	MA 122	Mathematics of Finance	4	0
	PSY 304	Educational Psychology	3	0
		English Electives*	3	3
		Electives*	5	6
			<hr/>	<hr/>
			18	19
4	ED 420	Principles of Guidance	0	2
	ED 470	Methods of Teaching Mathematics	3	0
	ED 471	Student Teaching in Mathematics**	10	0
	MA 533	History of Mathematics	0	3
	PSY 476	Psychology of Adolescence	2	0
		Electives*	3	11
			<hr/>	<hr/>
			18	16

* A minimum of 6 semester hour electives in mathematics and 4 semester hours in mathematics and science. All electives must be selected with approval of adviser.

** During the fall semester of the Senior year 12 weeks will be devoted to full-time off-campus work at an approved Student Teaching Center and approximately 6 weeks to concentrated courses.

CURRICULUM IN SCIENCE EDUCATION

A minimum of 144 credits required for graduation

			Credits	
1	BO 101, 102	General Botany	3	3
	ENG 111, 112	Composition	3	3
	HI 252	The United States since 1865	3	0
	MA 111	Algebra and Trigonometry	4	0
	MA 112	Analytic Geometry and Calculus A	0	4
	MIG 120	Physical Geology	0	3
	MS 101, 102	Military Science I		
	or	or		
	AS 121, 122	Air Science I	2	2
	PE 101, 102	Physical Education	1	1
			<hr/>	<hr/>
			16	16

			Credits	
2	CH 101	General Inorganic Chemistry	4	0
	CH 103	General and Qualitative Chemistry	0	4
	ED 203	Introduction to Teaching	2	0
	PS 201	The American Governmental System	3	0
	SOC 202	Man and Society	0	3
	ZO 101, 102	General Zoology	3	3
	ZO 213	Human Physiology	0	3
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
		Electives*	4	3
			<hr/> 19	<hr/> 19
3	CH 203	General and Organic Chemistry	4	0
	EC 201, 202	Economics	3	3
	ED 308	Visual Aids	0	2
	ED 344	Secondary Education	2	0
	ENT 312	Economic Entomology	0	3
	PSY 304	Educational Psychology	0	3
	PY 211, 212	General Physics	4	4
		English Elective	3	0
		Electives*	3	4
			<hr/> 19	<hr/> 19
4	BO 312	General Bacteriology	0	4
	ED 420	Principles of Guidance	0	2
	ED 475	Methods of Teaching Science	3	0
	ED 476	Student Teaching in Science**	10	0
	PSY 476	Psychology of Adolescence	2	0
		English Elective	0	3
		Electives*	3	9
			<hr/> 18	<hr/> 18

* All electives to be selected with approval of adviser.

** During the fall term of the Senior year, 12 weeks will be devoted to full-time off-campus work at an approved Student Teaching Center and approximately 6 weeks to concentrated courses on the campus.

— — — OCCUPATIONAL INFORMATION AND GUIDANCE

Professor ROY N. ANDERSON, *Head of the Department*

Associate Professor CHARLES G. MOREHEAD

— — — — — OBJECTIVES

Special facilities are provided in the School of Education for mature students and individuals who have had teaching or personnel experience and who hold a Bachelor's degree to enroll for courses leading to a Master's degree in Occupational Information and Guidance, or a Master of Science degree. The offerings of the Department of Occupational Information and Guidance permit graduate students in subject-matter fields to

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select appropriate courses which will enable them to provide guidance and counseling for their students as well as exert influence in promoting a school-wide guidance program.

A special program in rehabilitation counseling has been made possible by a Grant from the Office of Vocational Rehabilitation of the Department of Health, Education and Welfare.

In addition to the graduate program, the Department provides instruction in guidance for undergraduate students in the School of Education.

OPPORTUNITIES

Graduate work in Occupational Information and Guidance gives preparation for such positions as counselor in secondary schools, colleges or community agencies; school guidance director; employment counselor; placement worker; business or industrial personnel worker; and for personnel work in the State or Federal Government. Administrators, supervisors, directors of instruction and others who wish to prepare themselves for positions of leadership in guidance work may also profit from this program.

The Federal-State Rehabilitation program is expanding and there is a definite demand for rehabilitation counselors today. This demand is expected to increase in the near future.

GRADUATE STUDY

The Master's program includes a core of Guidance courses as follows: ED 524, Occupational Information; ED 631, Education and Vocational Guidance; ED 633, Techniques in Guidance and Personnel; ED 641, Field Work; and ED 651, Research. Opportunity for field work is available in secondary schools, colleges, clinics, employment offices and other agencies, according to the student's interest. Special courses are provided for rehabilitation counselors. Courses in Psychology, Sociology, Economics and Education are selected to round out the program. For those interested in public school guidance work, the program also meets the requirements for the Counselors Certificate issued by the State Department of Public Instruction, as well as similar certificates in many other states.

PSYCHOLOGY

Professor HOWARD G. MILLER, *Head of the Department*

Professors KEY L. BARKLEY, HAROLD M. CORTER

Visiting Professor WILLIAM MCGEEHEE

Associate Professors J. CLYDE JOHNSON, PAUL J. RUST

Assistant Professors WILLIAM B. ASKREN, MICHAEL D. CAFFEY, JOHN O. COOK, SLATER E. NEWMAN

Instructor CLIFTON W. GRAY

OBJECTIVES

In general, the courses in Psychology are designed to promote a broad understanding of man in relation to his environment and to cultivate the skills which may be useful in dealing with human beings in social, educational, industrial or other practical situations.

The Department of Psychology is located in the School of Education. The Department, however, offers courses of interest to students in all the professional schools.

The primary objectives of the Department are: to provide students with a broad and general understanding of human development, behavior and adjustment; to provide students in the various technical departments with the specialized instruction which will be of practical value to them; to

give instruction in the areas of child development, motivation, learning, social development and efficiency of study to students who are preparing to be teachers; to provide comprehensive training in industrial psychology and allied areas to students at the graduate level.

The Department has special facilities and arrangements for conducting its work which aid in the achievement of the stated objectives.

In order to provide psychological services to industry, the Department has established an Industrial Psychology Center which is equipped to conduct personnel evaluations, employee counseling, personnel training, aptitude testing, attitude surveys, personnel research and other psychological services.

In addition to the regular College budget, the Department has a psychology research budget which incorporates contract research studies sponsored by industrial firms, private organizations, and government agencies.

An applied Experimental Psychology Laboratory has been established in the Department. Emphasis is placed upon the design of experiments to study practical human problems. The design of machines to fit the human operator and the planning of work tasks in accordance with human capacities and limitations are major areas of concern in the Laboratory.

— — — — — OPPORTUNITIES

The Department does not offer an undergraduate degree in Psychology, but a student may elect courses to the extent time is allowed by his regular curriculum. The Department does give a Master of Science Degree in Industrial Psychology.

Upon completion of the Master's Degree in Industrial Psychology, a student may find employment in business or industry particularly in personnel work but also in general management. Some students become research workers in government or private organizations. Opportunities are available also in teaching and research activities in colleges and universities. Many students continue work toward the doctorate in other universities.

— — — — — GRADUATE STUDY

The emphasis in graduate study in the Department is upon Industrial Psychology. A required basic set of courses is provided for all students who wish to work toward a Master's Degree in Industrial Psychology. Supporting courses are offered in sufficient number for students to have some latitude in their emphasis on minor lines of study. The graduate courses in the Department are also available to graduate students majoring in Agricultural Education, Guidance, Industrial Arts, Industrial Education, Mathematics and Science Education, Textiles, Industrial Engineering, Rural Sociology and Statistics.

For general regulations regarding graduate study, the Graduate School Catalog should be consulted.

SCHOOL OF ENGINEERING

JOHN HAROLD LAMPE, DEAN
ROBERT G. CARSON, DIRECTOR OF INSTRUCTION
W. E. ADAMS, COORDINATOR OF STUDENT AFFAIRS

INTRODUCTORY — — — — —

The impact of science and technology on civilization imposes upon all of us, and upon the engineer in particular, a new sense of responsibility. The scientist cannot guarantee that his contributions will always be used for noble purposes: he cannot answer for the misuse of scientific discoveries by dictators who would enslave the human race. But he can supply the knowledge and tools for building a better world and the defenses for its preservation. To be an engineer thus carries with it the responsibility and the obligation to use all newly discovered knowledge for the benefit of mankind. Discovery leads to discovery; knowledge opens the way to more knowledge, making possible further enlightenment and a new age of plenty.

Engineering studies are of the utmost interest and importance to those young men and women who look to industry, engineering, or research for a career. These ambitions can well be furthered by the School of Engineering through its undergraduate or graduate programs, whereby students are offered technical instruction and leadership guidance by an experienced staff of qualified engineers and educators.

The School of Engineering is organized into ten engineering departments: Chemical, Civil, Electrical, Industrial, Mechanical, Physics, Mathematics, Mineral Industries, Mechanics and Research. Undergraduate degree programs are offered in the first eight named departments, and all the teaching departments offer advanced studies leading to a Professional Degree or to the Master's degree. The Doctor of Philosophy program is offered in the Ceramic, Chemical, Civil, Electrical, and Physics Departments.

It is the policy of the School of Engineering to have all its curricula more than meet the standards of the Engineers' Council for Professional Development. It is the ambition of the School that its curricula and programs meet the needs of the people and industries of the state and region through effective instruction, competent research and development, and worthwhile scientific contributions to engineering knowledge.

CURRICULA — — — — —

The curricula representing the study program in all of the departments are so arranged that the freshman year is common to all. They contain broadening courses in the humanities while emphasizing the basic and fundamental engineering principles so essential to an engineering college program. Graduates of this program will not only be prepared for engineering responsibilities and positions of trust in industry, but will also have an appreciation and consciousness of human problems in community and industrial life. Though an entering student is asked to designate a field of interest, he can with ease and without any interruption change to some other field of study within the School of Engineering at the end of the freshman year.

**FOUR-YEAR BACHELOR'S CURRICULA AND PROFESSIONAL
(FIFTH YEAR) STUDY**

The four-year program provides education and training to meet the needs of from eighty to eighty-five per cent of the young men of North Carolina who will take their places in industry and industrial life in the fields of production, sales, application, planning and the operation of small industrial units.

The fifth-year specialized training leads to a professional degree (CE, CHE, ME, EE, etc.) in ceramic, chemical, civil, electrical, geological, industrial and mechanical engineering. The courses of study are especially designed to meet the needs of students desiring intensive specialization in a particular field or additional course work not ordinarily covered in the normal four-year undergraduate curricula.

GRADUATE STUDY

The graduate activities are patterned to provide advanced training and experience to young men who have successfully completed a four-year program and who have an interest and ability to continue their education. This elective program will train graduates for positions and activities in teaching, technical design and research. The Engineering School offers two programs of graduate study. The first represents a year of full-time study and thesis work and leads to a degree of Master of Science in some field of engineering. The second program leads to a Doctor's degree in some field of engineering and usually requires three years of full-time study, thesis work and experimental activity.

RESEARCH

Research activities in the School of Engineering are based on a program correlated with graduate study in engineering. It is the purpose of this program not only to train future research workers, but also to carry out a program that assures both sound investigations of a fundamental nature in engineering sciences and work devoted to greater uses of the State's natural resources. Through publication, cooperative activity with industry and the operation of our own investigational projects, it is intended that the engineering research activities will be a part of and work effectively with the industrial development of North Carolina.

DEGREES**BACHELOR OF ENGINEERING**

The four-year curricula offer programs of study leading to a Bachelor's degree in Agricultural, Ceramic, Chemical, Civil, Engineering Mathematics and Engineering Physics, Geological, Industrial, Mechanical and Nuclear Engineering. Aeronautical Engineering is an option in Mechanical Engineering, and Construction Engineering is an option in Civil Engineering. Graduation requirements are the satisfactory completion of all the required courses in any one curriculum and other courses which amount to a minimum of 150 semester credit hours. A minimum scholastic record of a C average is also required. A minimum of six weeks' summer employment is required in all curricula.

**BACHELOR OF SCIENCE IN A SPECIALIZED BRANCH OF
ENGINEERING**

This is an earned undergraduate degree and is available through programs of study in Furniture Manufacture and Management and in Heating and Air Conditioning. The course is planned for four years of study. Graduation requirements are the satisfactory completion of all the required

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courses in any one curriculum and other courses which amount to a minimum total of 150 semester credit hours. A minimum scholastic record of C average is also required. Other requirements are the satisfactory completion of a week's inspection trip in the senior year and a minimum of six weeks' summer employment.

PROFESSIONAL DEGREE IN A SPECIALIZED BRANCH OF ENGINEERING

This is an earned degree which can be obtained only after the Bachelor's degree. The fifth-year curricula are especially designed to meet the needs of students desiring intensive specialization in a particular field or additional course work not ordinarily covered in the normal four-year undergraduate curricula. This professional program of study is offered in Ceramic, Chemical, Civil, Electrical, Geological, Industrial and Mechanical Engineering. Regulations covering this degree are shown on pages 130-131.

For further information concerning the requirements for the professional degree, applications for admission, etc., address Dr. J. H. Lampe, Dean of Engineering, North Carolina State College, Raleigh, North Carolina.

MASTER OF SCIENCE (M.S.) IN A SPECIALIZED BRANCH OF ENGINEERING

This is an earned graduate degree which can be obtained only after the Bachelor's degree. It requires at least one year of graduate work, a reading knowledge of at least one foreign language and a thesis showing ability to pursue independent research. The core of graduate courses taken must emphasize a scientific objective. Further information concerning the requirements for this degree may be obtained by addressing Director of Graduate Studies, State College, Raleigh, North Carolina.

DOCTOR OF PHILOSOPHY DEGREE (Ph.D.)

This is an earned graduate degree offered in Ceramic, Chemical, Civil, Electrical, and Nuclear Engineering and Engineering Physics. Admission requirements are the same as for the master's degree. It requires at least two years of graduate work with a major in Ceramic, Chemical, or Electrical Engineering and a minor either in some field of engineering or in an allied science. The dissertation will also deal with some problem in the field of the student's major interest. Inquiries about this program should be addressed to Director of Graduate Studies, State College, Raleigh, North Carolina.

THE HONORARY DEGREE OF DOCTOR OF ENGINEERING (D.Eng.)

This degree is purely an honorary degree conferred upon men of extraordinarily high professional engineering attainments who are graduates of one of the branches of the University of North Carolina, or upon professional engineers who have rendered distinguished services to the State of North Carolina.

NON-SCHOLASTIC REQUIREMENTS — — — — —

SUMMER WORK: INDUSTRIAL EMPLOYMENT

A minimum of six continuous weeks of gainful employment is a specific requirement for graduation in Engineering. This employment may be as laborer, sub-professional, or professional assistant in any of the following fields: (1) industrial manufacture, repair service, or sales; (2) industrial engineering or scientific research; (3) engineering or architectural design and drafting; (4) engineering exploration, surveying, or reconnaissance; (5) construction of buildings, roads, railroads, dams and other engineering works.

Students are required to consult with their department heads as to the type of work that will be acceptable before making arrangements for industrial employment. It is desirable that this employment be in the student's scholastic major. The required industrial employment should be completed during the summer vacation period, which may be the one between the sophomore and junior years or the one between the junior and senior years, preferably the latter. Students enrolled for advanced military training should complete the industrial employment requirement between the sophomore and junior years to avoid conflict with ROTC Summer Camp.

The student is responsible for obtaining his employment and supplying satisfactory evidence thereof to the head of his department. This evidence will consist of a letter from the employer to the head of the student's department setting forth (1) inclusive dates of employment; (2) character of work performed; (3) type of operation of firm or individual; (4) an evaluation of the student's work. This letter must be submitted to the department head not later than the end of the fall semester of the year in which the student intends to graduate.

— — — — — SHORT COURSES AND INSTITUTES

The School of Engineering cooperates with the College Extension Division in offering short courses and institutes both on the campus and at various centers throughout the State for adults and graduate engineers. Such courses vary in length from one day to twelve weeks; each year the courses offered are different and vary according to the public demand. The faculty of the School of Engineering usually furnish a large portion of the instruction offered in these courses, which in the past have been for Electrical Metermen, Gas Plant Operators, Safety Engineers, Radio Engineers, Refrigeration and Air Conditioning Engineers, Waterworks Operators, Heating and Plumbing Contractors and Surveyors. Classes are usually held in Raleigh where the School of Engineering has an excellent staff and adequate laboratories and classroom facilities available.

These short courses offer real opportunity to practicing engineering personnel to follow a refresher program in their field of interest, as well as to become acquainted with the latest and most modern engineering procedures and equipment.

Another educational services activity is that being carried out at the Gaston Technical Institute, Gastonia, North Carolina, where a two-year post-high school terminal technician program is sponsored by the School of Engineering and operated by the Extension Division of the College. A separate full-time staff is employed for this educational program which provides an integrated curriculum in English, mathematics, engineering drawing, machine shop, welding, electrical maintenance and economics. Graduates of this program are trained for industry with the opportunity for rapid acceleration towards positions of foremen, maintenance supervisors, etc.

— — — — — CURRICULA OFFERED IN THE SCHOOL OF ENGINEERING

Each of the following curricula is not only well-balanced, but offers a liberal course of study in a technical and professional field. Each conforms to what is regarded by engineering educators as the best modern practice.

FOR ALL ENGINEERING CURRICULA

			Credits	
1	CH 101, 103	General Inorganic Chemistry and Qualitative Analysis	4	4
	ENG 111, 112	Composition	3	3
	E 100	Introduction to Engineering	1	0

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HI 205	The Modern Western World	0	3
MA 101, 102**	First Year Mathematics for Engineers	5	4
ME 101, 102	Engineering Graphics I, II	2	2
MS 101, 102	Military Science or		
or	Air Science	2	2
AS 121, 122	Physical Education*	1	1
PE 101, 102		<hr/>	<hr/>
		18	19

* Students excused from Military Science or Air Science and/or Physical Education will schedule equivalent credits in courses outside their department.

** To be eligible to roster courses taught by the School of Engineering above the freshman level, an engineering student must have earned a minimum grade of "C" on MA 102.

The sophomore, junior and senior programs of study in the various fields of Engineering are shown under the department headings on the pages that follow.

HUMANITIES—SOCIAL STUDIES PROGRAM FOR ENGINEERING STUDENTS

A specially designed sequence of courses comprising twenty-one (21) credit hours is required of all engineering students and is incorporated in each curriculum. Its primary objective is to broaden the student in the humanities and social sciences and to instill good habits in the use of the English language. Following a broad yet basic consideration of history, economics and literature, the student progresses to an advanced and integrated study of contemporary civilization and of contemporary problems. The work of the last semester may be chosen from a group of approved electives which are built upon and closely related to the subject matter of the previous three years.

FRESHMAN YEAR

Credits

HI 205	The Modern World or		
EC 205	The Economic Process	0	3
SOPHOMORE YEAR			
HI 205	The Modern World and		
ENG 205*	Reading for Discovery	3	3
	or		
EC 205	The Economic Process		
JUNIOR YEAR			
SS 301, 302	Contemporary Civilization	3	3
SENIOR YEAR			
SS 491	Contemporary Issues I and	3	3
	Approved Elective (see list below)		

SENIOR ELECTIVES FOR HUMANITIES—SOCIAL STUDIES PROGRAM

SS 492	Contemporary Issues II	3
HI 412	Recent United States History	3
ENG 366	The American Mind	3
PS 401	American Parties and Pressure Groups	3
SOC 401	Human Relations in Industrial Society	3
PHI 395	Philosophical Analysis	3
EC 442	Evolution of Economic Ideas	3

* History, Economics, and Literature may be scheduled in any order except that ENG 111, 112, Composition, are prerequisite for ENG 205. Only one course can be scheduled without special permission.

Courses from the approved list of senior electives will not be credited to the humanities sequence unless preceded by all other required humanities courses.

-AGRICULTURAL ENGINEERING

A curriculum for work leading to the Bachelor's degree in Agricultural Engineering is the joint responsibility of the School of Agriculture and the School of Engineering. Each of the schools gives approximately one-half the course work.

For further details concerning the field, see page 42.

-CHEMICAL ENGINEERING

Professor E. M. SCHOENBORN, Head of the Department

Professors K. O. BEATTY, JR., F. P. PIKE

Associate Professors R. BRIGHT, J. F. SEELY

Assistant Professor E. R. CONWAY

-OBJECTIVES

Chemical Engineering is concerned with the development and application of manufacturing and allied processes in which chemical or certain physical changes of material are involved. It involves the application of mathematics, chemistry, physics, and fundamental engineering principles to the design, construction, operation, control, and improvement of equipment for carrying out chemical processes on an industrial scale at the lowest possible cost. Most of the so-called process industries—the production of chemicals, plastics, rubber, paints, synthetic fibers, petroleum, paper, explosives, drugs, food, soap, magnesium, aluminum, glass, cement and numerous others—are inherently chemical engineering in nature. To prepare men for careers in industries of these kinds is the purpose of the course in Chemical Engineering.

-CURRICULUM

The work of the chemical engineer is so extensive and diversified in scope that his training must be along broad and basic lines rather than in any one field of specialization. Furthermore, the spirit of research and experimentation is vital to the chemical industry so that the development not only of a sound technical background but also of a capacity for original thought and independent accomplishment is an essential part of his program. The undergraduate curriculum emphasizes the engineering, the chemical, and the economic principles involved in chemical processes and operations. The work in chemistry including inorganic, analytical, physical, and organic chemistry is comparable to that usually given to chemists in the first three years with the exception of a reduction of time devoted to laboratory work. The subjects in mechanical and electrical engineering, in mechanics and metallurgy are designed to supply the fundamentals of these branches. The work in the Chemical Engineering subjects, although distinctly professional in application, is nevertheless basic in character. Since it depends upon a thorough background in the sciences, it is postponed until the third and fourth years. It is designed to develop initiative, sound habits of thought, and intellectual curiosity in the student.

-FACILITIES

The Chemical Engineering Laboratories are provided with pilot plant-type equipment for studying the principles of fluid flow, heat transfer, distillation, absorption, drying, crushing and grinding, filtration, agitation, etc. Much new equipment has been installed, and new and special apparatus is added from time to time to keep the facilities abreast of recent developments in the field. Special equipment for research and instructional purposes is designed and built in the departmental laboratories. In this way

ENGINEERING

students are given first hand acquaintance with problems relating to the actual design, construction, and operation of typical equipment used in industry.

OPPORTUNITIES — — — — —

Opportunities for employment in the chemical and allied industries upon graduation are numerous and varied. Graduates find employment in such fields as: research and development; production, operation, and maintenance; management and administration; inspection, testing, and process control; technical service and sales; estimation and specification writing; consulting and teaching, and many others. Students desiring to pursue careers in research and development or in teaching and consulting work are strongly advised to consider graduate training. In fact, the need for persons who have had advanced training in the field beyond the regular four-year program is continually increasing.

CURRICULUM IN CHEMICAL ENGINEERING — — — — —

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	CHE 205	Chemical Process Principles	4	0
	CHE 311	Introductory Chemical Engineering	0	4
	EC 205	The Economic Process	0	3
	ENG 205	Reading for Discovery	3	0
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
	MS 201, 202	Military Science II		
	or			
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			19	19
3	CH 215	Quantitative Analysis	4	0
	CH 531, 532	Physical Chemistry	3	3
	CHE 411	Unit Operations I	0	3
	CHE 415	Chemical Engineering Thermodynamics	4	0
	EE 320	Elements of Electrical Engineering	0	4
	EM 341, 342	Engineering Mechanics A, B	2	2
	SS 301, 302	Contemporary Civilization	3	3
		Electives	3	3
			19	20
4	CH 425, 426	Organic Chemistry	3	3
	CHE 412	Unit Operations II	3	0
	CHE 431, 432	Unit Operations Lab I, II	3	3
	CHE 460	Seminar	1	0
	CHE 525	Process Measurement and Control	3	0
	CHE 527	Chemical Process Engineering	0	3
	MIM 321	Metallurgy	0	3
	SS 491	Contemporary Issues I and		
		Electives in Humanities	3	3
			3	3
			19	18

— — — — — PROFESSIONAL CURRICULUM IN CHEMICAL ENGINEERING

Typical Program

		Credits	
CH 401	Special Topics in Inorganic Chemistry	3	0
CHE 525	Process Measurements and Control	0	3
CHE 546	Chemical Reaction Rates	0	3
CHE 570	Chemical Engineering Projects	2	2
CHE 610, 613	Heat Transfer I, Distillation	3	3
CHE 660	Chemical Engineering Seminar	1	1
PY 407	Introduction to Modern Physics	3	0
	Electives	3	3
		<hr/> 15	<hr/> 15

— — — — — GRADUATE STUDY IN CHEMICAL ENGINEERING

Regulations Governing the Professional Program are Shown on Pages 130 and 131.

Graduate work is offered in Chemical Engineering leading to the degrees of Master of Science and Doctor of Philosophy in Chemical Engineering. Superior students who can do so are strongly encouraged to spend one or more years in advanced study and research since the demand of the chemical industry for persons with training beyond the baccalaureate is continually increasing.

The Chemical Engineering staff and research facilities provide unusual opportunities for basic and applied work in such important fields as fluid flow, heat transfer, distillation, diffusional operations, plastic technology, etc. Of current interest are special programs in thermal properties of materials at both high and low temperatures, in process measurement and control, and in the use of radioactive tracers in chemical engineering research.

For general regulations, the Graduate School Catalog should be consulted.

— — — — — CIVIL ENGINEERING

Professor R. E. FADUM, Head of the Department

Professors C. R. BRAMER, C. R. MCCULLOUGH, CARROLL L. MANN, JR., M. E. UYANIK

Associate Professor M. V. SMIRNOFF

Assistant Professors R. H. BIGELOW, A. G. FARKAS, J. W. HORN, C. H. KAHN*

Instructors D. N. COTE, C. P. FISHER, JR., G. W. JONES, A. B. MERRITT, JR. Visiting Lecturer J. F. BONEY

* On leave '58-'59

— — — — — DEFINITION OF CIVIL ENGINEERING

Civil Engineering is one of the broadest of the various fields of engineering. It deals with the planning, design and construction of buildings, bridges, dams, harbor works, water works, water power facilities, sewage disposal works and transportation facilities including highways, railways, waterways, airports and pipe lines. The civil engineer's services are in demand by public agencies as well as by private enterprise. The activities of the civil engineer are such that opportunities are available for office-type as well as field-type employment and for employment in small communities as well as in large industrial centers. The breadth in scope of civil engineering and the variety of types of employment open to the civil engineer are such that a student who does not have a strong predilection for some special branch of engineering may be safely advised to study civil engineering.

OBJECTIVES — — — — —

It is the primary mission of the Civil Engineering Department to offer programs of study designed to provide adequate academic preparation to those contemplating a career in the civil engineering profession. To this end, course work at both the baccalaureate and graduate levels is offered. The undergraduate program is designed to provide a sound general education and at the same time to prepare the student for advanced study in engineering either by the continuation of formal education at the graduate level or by self-study.

FACILITIES — — — — —

The Department of Civil Engineering is located in Mann Hall. This building provides offices, drafting rooms and classrooms, as well as laboratory facilities for testing structural materials, soils and bituminous products; for hydraulic experiments; for studies in airphoto interpretation and photogrammetry; for analysis of structural models; for chemical and biological tests pertaining to sanitary engineering; and for the investigation of transportation problems. In addition, the facilities of Mann Hall include a comfortable student study room, an auditorium and a departmental library. All of these facilities have been designed to provide for effective teaching and laboratory instruction and to create a scholarly environment.

UNDERGRADUATE CURRICULA — — — — —

The Department of Civil Engineering offers two four-year undergraduate curricula: the one, leading to the degree of Bachelor of Civil Engineering; the other, to the degree of Bachelor of Civil Engineering, Construction Option.

The Civil Engineering curriculum has been accredited by the Engineers' Council for Professional Development. It is a well-balanced program of study providing academic discipline in the pure and applied physical sciences, the humanities and social sciences, and the professional aspects of civil engineering including structural, transportation and sanitary engineering.

CURRICULUM IN CIVIL ENGINEERING — — — — —

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	CE 201, 202	Surveying I, II	3	3
	EM 311	Mechanics I (Statics)	0	3
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
		Humanities	3	3
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			<hr/> 18	<hr/> 21
3	CE 305, 306	Transportation Engineering I, II	3	3
	CE 321, 322	Materials Testing Laboratory I, II	2	2
	CE 324	Structural Analysis I	0	3
	CE 382	Hydraulics	0	3
	EM 312	Mechanics II (Dynamics)	3	0
	EM 321	Strength of Materials I	3	0
	MA 401	Differential Equations I	3	0
	ME 301	Engineering Thermodynamics I	0	3
	SS 301, 302	Contemporary Civilization	3	3
		Air or Military Science or		
		Electives	3	3
			<hr/> 20	<hr/> 20

4	CE 425	Structural Analysis II	3	0
	CE 427, 428	Structural Design I, II	4	3
	CE 442	Soil Mechanics	3	0
	CE 481	Hydrology and Drainage	2	0
	CE 482	Water and Sewage Works	0	3
	CE 492, 493	Professional Practice I, II	1	1
	EE 320	Elements of Electrical Engineering	0	4
	SS 491	Contemporary Issues I and Elective in Humanities Air or Military Science or Electives	3	3
			3	3
			<hr/> 19	<hr/> 17

— — — — — **CONSTRUCTION OPTION**

Professor CARROLL L. MANN, JR., In Charge

The curriculum in Civil Engineering Construction Option is designed to suit the needs of students who are especially interested in the construction phases of civil engineering. It includes the core course requirements in the physical sciences and the social sciences and humanities as established for all engineering curricula offered at North Carolina State College. It differs from the Civil Engineering curriculum in that special emphasis is given to the construction aspects of civil engineering. To this end the curriculum includes a four-semester sequence of courses in estimates and costs and construction planning and organization. The courses unique to this curriculum are designed to provide academic discipline in the engineering, planning, and management aspects of construction.

— — — — — **CURRICULUM IN THE CONSTRUCTION OPTION**

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	CE 201, 202	Surveying I, II	3	3
	EM 311	Mechanics I (Statics)	0	3
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
		Humanities	3	3
	MS 201, 202	Military Science		
	or	or		
	AS 221, 222	Air Science	2	2
	PE 201, 202	Physical Education	1	1
			<hr/> 18	<hr/> 21
3	CE 321, 322	Materials Testing Laboratory I, II	2	2
	CE 324	Structural Analysis I	0	3
	CE 361, 362	Estimates and Costs I, II	3	3
	EC 312	Accounting for Engineers	0	3
	EE 320	Elements of Electrical Engineering	4	0
	EM 312	Mechanics II (Dynamics)	3	0
	EM 343	Strength of Materials I	3	0
	ME 301	Engineering Thermodynamics I	0	3
	SS 301, 302	Contemporary Civilization	3	3
		Air or Military Science or Electives	3	3
			<hr/> 21	<hr/> 20

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4	CE 427, 429	Structural Design I, III	4	3
	CE 443	Foundations	0	3
	CE 461, 462	Project Planning and Control I, II	3	3
	CE 464	Legal Aspects of Contracting	0	3
	CE 485	Elements of Hydraulics and Hydrology	3	0
	CE 492	Professional Practice I	1	0
	SS 491	Contemporary Issues I and		
		Elective in Humanities	3	3
		Air or Military Science or		
		Electives	3	3
			17	18

PROFESSIONAL STUDY IN CIVIL ENGINEERING — — — — —

Fifth-year programs of study leading to the professional degree Civil Engineer are offered in the following specialty fields: sanitary engineering, soil mechanics and foundation engineering, structural engineering and transportation engineering. The fifth-year curricula, which are made up of advanced course work, are offered as a continuation of the four-year undergraduate program and are designed for students who are desirous of becoming technically proficient in one of the specialty fields of civil engineering. The following curricula are illustrative of the fifth-year programs of study. It is to be understood, however, that a curriculum for a given student is designed in consultation with his adviser to suit his particular interests. Regulations Governing the Professional Program are Shown on Pages 130 and 131.

CURRICULUM IN SANITARY ENGINEERING — — — — —

			Credits	
5	CE 571	Theory of Water and Sewage Treatment	3	0
	CE 572	Unit Operations and Processes in Sanitary Engineering	0	3
	CE 573	Analysis of Water and Sewage	3	0
	CE 598	Civil Engineering Projects	2	2
	CE 671	Advanced Water Supply and Sewage	4	0
	CE 672	Advanced Water and Sewage Treatment	0	4
		Electives	3	6
			15	15

CURRICULUM IN SOIL MECHANICS AND FOUNDATION ENGINEERING —

5	CE 507	Airphoto Analysis I	3	0
	CE 524	Analysis and Design of Masonry Structures	0	3
	CE 544	Foundation Engineering	0	3
	CE 548	Soil Testing for Engineering Purposes	0	3
	CE 621	Advanced Structural Analysis I	3	0
	CE 641	Advanced Soil Mechanics	3	0
	CE 643	Hydraulics of Ground Water	0	3
	MA 401	Differential Equations	3	0
		Electives	3	3
			15	15

— CURRICULUM IN STRUCTURAL ENGINEERING

5	CE 521, 522	Advanced Structural Design I, II	3	3
	CE 544	Foundation Engineering	0	3
	CE 621, 622	Advanced Structural Analysis I, II	3	3
	EM 551	Advanced Strength of Materials	3	0
	EM 602	Theoretical and Applied Elasticity	0	3
	MA 401	Differential Equations	3	0
		Electives	3	3
			<hr/> 15	<hr/> 15

— CURRICULUM IN TRANSPORTATION ENGINEERING

5	CE 515	Transportation Analysis	3	0
	CE 516	Transportation Engineering Design	3	0
	CE 601	Transportation Planning	0	3
	CE 602	Advanced Transportation Engineering Design	0	3
	CE 603	Airport Planning and Design	0	3
	CE 604	Urban Planning and Mass Transportation	0	3
		Electives	9	3
			<hr/> 15	<hr/> 15

— GRADUATE STUDY IN CIVIL ENGINEERING

The graduate degrees offered by the Civil Engineering Department are the Master of Science in Civil Engineering and the Doctor of Philosophy. At North Carolina State College, facilities for research and graduate instruction are available in the areas of sanitary engineering, soil mechanics and foundation engineering, structural engineering and transportation engineering. For additional information concerning graduate study opportunities in Civil Engineering, the current issue of the Graduate School Catalogue of North Carolina State College should be consulted.

— ELECTRICAL ENGINEERING

Professor G. B. HOADLEY, Head of the Department

Professors W. J. BARCLAY, J. H. LAMPE, W. D. STEVENSON, JR.

Associate Professors K. B. GLENN, E. G. MANNING, E. W. WINKLER

*Assistant Professors A. J. GOETZE *, R. J. PEARSALE, E. H. TOMPKINS, JR.*

Instructors H. MOTT, P. I. PADUNCHEWIT, H. D. RANDOLPH, H. W. THOMPSON, F. L. THURSTONE, R. L. THURSTONE

* On leave of absence

— OBJECTIVES

The purpose of the undergraduate curriculum is to train young men for active work in a wide and diversified field. The electrical industry demands, above all else, a thorough preparation in the sciences underlying all branches of engineering, a broad foundation in fundamental electrical theory and a clear understanding of the characteristics of electrical machinery and systems. These factors are essential for success, whether it be in the design and manufacture of electrical equipment, in power production and utilization, or in the fields of communication and electronics, since in all of these branches of the industry technical advances are being made with increasing rapidity.

— CURRICULUM

With this object in view, the curriculum in Electrical Engineering includes comprehensive training in mathematics and physics—the fundamental sciences—and adequate training in allied branches of engineering. All

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courses are accompanied by coordinated work in the laboratory and intensive drill in the application of theory by means of carefully planned problems. In the senior year, the student is offered a choice of Power, Communications, or Controls.

The curriculum includes a thorough drill in the preparation and delivery of technical reports.

Each student is required to spend at least six weeks in satisfactory industrial employment before receiving his degree.

FACILITIES — — — — —

The Department is housed in Daniels Hall. It maintains the following laboratories: Dynamo, Communications and Electronics, Industrial Electronics and Control, Sophomore, Standards, and Photometry. In addition, there are an instrument room, a shop and a number of research rooms.

DEPARTMENTAL STUDY ACTIVITIES — — — — —

Close coordination with the work of the professional electrical engineering societies is maintained through the AIEE-IRE Joint Student Branch which meets twice a month. Faculty advisers assist the students in bringing to these meetings practicing engineers. The Joint Student Branch also sponsors departmental activities such as picnics for new students and departmental participation in the Engineering Fair.

An active chapter of Eta Kappa Nu, the national honorary Electrical Engineering fraternity, undertakes numerous important projects in addition to holding two initiation banquets yearly.

CURRICULUM IN ELECTRICAL ENGINEERING — — — — —

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	EE 201, 202	Elementary Circuits and Fields	4	4
	ENG 205	Reading for Discovery; and		
	EC 205	The Economic Process	3	3
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
	MS 201, 202*	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education*	1	1
			19	19
3	EE 301, 302	Intermediate Circuits and Fields	4	3
	EE 305	Electrical Machinery	4	0
	EE 414	Electronics	0	4
	EM 311	Mechanics I (Statics)	3	0
	EM 312	Mechanics II (Dynamics)	0	3
	MA 401	Differential Equations	0	3
	PY 407	Introduction to Modern Physics	3	0
	SS 301, 302	Contemporary Civilization	3	3
		Electives**	3	3
			20	19

4	EE 411	Electrical Engineering Senior Seminar	1	0
	EE 501, 502	Advanced Circuits and Fields	3	3
	EM 321	Strength of Materials I	0	3
	MA 405	Introduction to Determinants and Matrices, or		
	MA 501	Numerical Analysis I, or		
	MA 511	Advanced Calculus I, or		
	MA 532	Differential Equations II, or		
	MA 541	Vector Analysis	3	0
	ME 301, 303	Engineering Thermodynamics I, III	3	3
	SS 491	Contemporary Civilization	3	0
		Departmental Electives	3	3
		Electives in the Humanities or		
		Social Sciences	0	3
		Electives**	3	3
			<hr/> 19	<hr/> 18

* Students excused from Military or Air Science and/or Physical Education will schedule equivalent credits in courses outside their department.

** The Junior and Senior Electives may be taken in advanced Military Science. If not, they are free electives, subject to the approval of the student's adviser and the Department Head.

— — — — — PROFESSIONAL STUDY IN ELECTRICAL ENGINEERING

A fifth, or professional, year of study is offered in Electrical Engineering as a continuation of the four-year undergraduate program. This fifth year of study offers specialized and advanced course work leading to the degree of Electrical Engineer.

Each student taking this fifth year work has his program of courses planned to meet his individual needs. The following curricula are illustrative only, and are printed merely to show the sort of program a professional student might follow.

Regulations Governing the Professional Study are Shown on Pages 130 and 131.

CURRICULUM

TYPICAL PROGRAMS

ELECTRIC POWER

			Credits	
5	FE 605	Electrical Engineering Seminar	1	0
	FE 635	Dielectric Theory	3	0
	FE 636	High Voltage Engineering	0	3
	EE 637	Circuit Analysis of Power Systems	3	0
	EE 638	Power System Stability	0	3
	EM 531	Hydraulic Machinery	2	0
	EM 554	Vibration Problems	0	3
	MA 511, 512	Advanced Calculus I, II	3	3
	ME 401	Power Plants	3	0
	ME 502	Heat Transfer	0	3
			<hr/> 15	<hr/> 15

— — — — — COMMUNICATIONS

5	EE 605, 606	Electrical Engineering Seminar	1	1
	FE 611, 612	Communications Network	4	4
	EE 615	Electromagnetic Waves	4	0
	EE 616	Advanced Radio Engineering	0	4
	MA 511, 512	Advanced Calculus I, II	3	3
	PY 407	Introduction to Modern Physics	3	0
	PY 544	Vibration and Wave Motion	0	3
			<hr/> 15	<hr/> 15

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GRADUATE STUDY IN ELECTRICAL ENGINEERING — — — — —

The graduate degrees offered by the Department of Electrical Engineering are the Master of Science in Electrical Engineering and the Doctor of Philosophy in Electrical Engineering.

At North Carolina State College, the graduate offering in electronics and communications includes courses in Electric Communications, Communication Networks, Advanced Radio Engineering, Radiation and Antennas and Vacuum Tube Design. These courses are supplemented by experimental work carried on in various special departmental laboratories, such as the high-vacuum laboratory and the microwave laboratory. These special laboratories, together with a number of small laboratories in which graduate students carry on individual research problems, are in the newly constructed Daniels Hall addition.

Graduate students specializing in electric power have the opportunity of taking courses in Electric Transmission, Power Network Calculations, Theory and Design of Electric Machines, Industrial Electronics and Control, High Voltage Engineering and Power Systems. In this case also there are special laboratories such as the high-voltage laboratory and the servomechanisms laboratory, in which laboratory instruction related to these courses is given, and there are individual research rooms for thesis work.

For further information concerning graduate study in Electrical Engineering, the current Graduate School Catalog of North Carolina State College should be consulted.

ENGINEERING MECHANICS — — — — —

Professor G. WALLACE SMITH, Head of Department

Professor ADOLPHUS MITCHELL

Assistant Professors MAURICE H. CLAYTON, JOSEPH E. HARDEE, GEORGE W. MIDDLETON

Instructor HALBERT F. BRINSON

UNDERGRADUATE STUDY — — — — —

The Department of Engineering Mechanics teaches and administers the courses in theoretical and applied mechanics, strength of materials and fluid mechanics. These courses are fundamental to the professional and design courses of the several Engineering curricula. The student is expected to acquire a basic knowledge of the physical properties of materials and the laws that govern their use in engineering design.

GRADUATE STUDY — — — — —

A student who is interested in investigation and research, and who has the proper prerequisite, may take a course of study offered by this department which leads to the degree of Master of Science in Engineering Mechanics. For general regulations of the Graduate School, the Graduate School Catalog should be consulted.

THE DEPARTMENT OF ENGINEERING RESEARCH — — —

N. W. CONNER, Director

Professor of Mechanical Engineering J. F. LEE

Research Professor of Ceramic Engineering W. C. BELL

Research Professor of Mechanical Engineering P. H. McDONALD, JR.

Research Associate Professor of Metallurgy H. H. STADELMAIER

Research Associates KING R. BROSE, L. J. HUETTER, LAWRENCE B. MCGEE, FRANCES M. RICHARDSON

Research Assistants S. W. DERBYSHIRE, ANNA C. FRAKER, W. M. KENAN, ARTHUR E. LUCIER, R. B. MOFFITT, JAMES T. TANNER, JR., W. D. WILKINSON

OBJECTIVES

Research and teaching are the two responsibilities of the true university. The School of Engineering has a clear appreciation of the obligation of education to further man's understanding of the world in which he lives and of the contribution of research to effective teaching. Within the School, research programs are conducted in many fields of engineering; these activities are given strong encouragement and support through the Department of Engineering Research.

As a unit of North Carolina's Land-Grant College, the School of Engineering is obligated to serve the industrial life of the state. Functioning in this capacity, it offers a broad program of service and experimental aid through the Department of Engineering Research. Many industries in the state have brought problems to the School; association with the industrialists of the state is being sought and strengthened constantly. This service is further strengthened through close cooperation with the North Carolina Department of Conservation and Development. Particular encouragement and assistance are granted those investigations that give promise of new industry to North Carolina.

FACILITIES

The Department of Engineering Research, established originally in 1923 as the Engineering Experiment Station, maintains laboratories and a full-time staff devoted exclusively to experimental work. Its operations are carried out in close cooperation with the administration and faculties of the teaching departments. The abilities of the various departments of engineering are combined through the Department so that the complete research capacity of the School of Engineering is available for experimental work in any field. The Department also acts as the administrator for the School in negotiations involving research programs done for private industry and for governmental agencies.

The Minerals Research Laboratory in Asheville is engaged in the expansion of North Carolina mineral production through facilities for the development of improved processes of mineral concentration, or examination and appraisal, and chemical analysis.

The Industrial Experimental Program was created by the 1955 General Assembly acting upon a request from the School of Engineering. Its objective is to provide technical assistance to the State's small industry and to promote utilization of its natural resources.

RESEARCH PROGRAMS

Today the research capacity of the nation is being called upon as a resource for national security. Research facilities of colleges and universities are prominent in this defense capacity, and the School of Engineering at North Carolina State College is now strong in its ability to serve among the leading engineering schools of the country. Several research programs sponsored by the services have been in progress for several years; the School's capacity for expanded service is large.

Research currently in progress includes work being done for the Air Material Command of the U. S. Air Force, the Office of Ordnance Research, the Bureau of Ships, the Wright Air Development Center, Redstone Arsenal, and the Texas Company. Work is included in the fields of structural clay products, radiant heating, stress analysis, rotational speed deviation measurements, tannin extraction, recovery from fish waste, erosion of plastics, fuel oils, precipitation hardening and diffusion in alloys and electronics.

Upon their conclusions, results of the engineering investigations are published as bulletins so that the information obtained may be made avail-

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able to the public and be contributed to the total field of technical knowledge. A complete list of the bulletins published to date or any other information pertaining to the operation or availability of the facilities of the Department will be furnished upon request.

RESEARCH FELLOWSHIPS — — — — —

To assure wider benefits for both graduate and undergraduate students from the engineering research activities, the Department offers several Research Fellowships and employs some of the more promising and deserving students as assistants in the laboratory on a part-time basis.

INDUSTRIAL ENGINEERING — — — — —

Professor CLIFTON A. ANDERSON, *Head of the Department*
Professor R. G. CARSON, JR., E. S. JOHNSON
Visiting Professors R. WILLARD, J. S. LITTLE
Associate Professor R. W. LLEWELLYN
Assistant Professors R. ALVAREZ, R. L. COPE

OBJECTIVES — — — — —

Industrial Engineering is a relatively new branch of the engineering profession. It has seen its greatest growth commencing with the industrial expansion required in the war years. As a college curriculum, it is the result of a demand by industry for graduates who are trained in the fundamentals of engineering and who have acquired a knowledge of the principles involved in planning, operating and controlling the operations of an industrial enterprise.

CURRICULUM — — — — —

It is the industrial engineer's job to transform plans, specifications and blueprints into plant, equipment and personnel to create the product. He is concerned also with controls and plans for the profitable and continued operation of an existing plant.

The Industrial Engineering program at North Carolina State College has been planned with this viewpoint in mind. After the first year, which is common with all other branches of engineering, the curriculum includes subject matter in Industrial Organization and Management, Motion and Time Study, Plant Layout, Quality Control, Job Evaluation, Accounting, Personnel and Labor Relations and Production Control together with other specialized courses which help develop a background and technique for understanding our modern industrial system.

The Industrial Engineering curriculum has been inspected and accredited by the Engineers' Council for Professional Development.

STUDENT ACTIVITIES — — — — —

Student organizations within the department include a chapter of the American Institute of Industrial Engineers. This student function has demonstrated its calibre by earning first place in the Annual Student Award for 1956-57 in competition with AIIE chapters at all other institutions. Departmental and student activities of a professional and a social character are sponsored by the organization.

An active chapter of Alpha Pi Mu, the Industrial Engineering Honor Society, gives recognition to the outstanding students in the Junior and Senior classes. The membership annually undertakes projects of value to I.E. Students and the department.

CURRICULUM IN INDUSTRIAL ENGINEERING

For the Freshman Year, Refer to Page 97

			Credits	
2	EC 205	The Economic Process	3	0
	ENG 205	Reading For Discovery	0	3
	IE 201, 202	Industrial Engineering I, II	3	3
	IE 217	Machine Tools	1	0
	IE 218	Metal Forming	1	0
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
	PSY 200	Introduction to Psychology	0	3
	MS 201, 202	Military Science or		
	AS 221, 222	Air Science	2	2
	PE 201, 202	Physical Education	1	1
			<hr/> 20	<hr/> 21
3	EC 312	Accounting for Engineers	3	0
	EM 341	Mechanics A (Statics)	2	0
	EM 342	Mechanics B (Dynamics)	0	2
	IE 303, 304	Industrial Engineering III, IV	4	4
	MA 401	Differential Equations I	3	0
	MA 405	Introduction to Detrimants & Matrices	0	3
	SS 301, 302	Contemporary Civilization	3	3
	ST 361, 362	Statistics for Engineers	3	3
		Elective	3	3
			<hr/> 21	<hr/> 18
4	EE 331, 332	Principles of Electrical Engineering	4	4
	EM 343	Strength of Materials A	2	0
	IE 401, 402	Industrial Engineering Analysis	3	3
	IE 451	Seminar	1	0
	ME 301	Engineering Thermodynamics I	3	0
	SS 491	Contemporary Issues I	3	0
		Humanities Elective	0	3
		Technical Elective	0	3
		Elective	3	3
			<hr/> 19	<hr/> 16

Proficiency in written expression to be demonstrated at the beginning of the Junior year. Students who fail this test are to be required to take additional work in the English Department; and to repeat the test. Such work will be in addition to the normal courses required for graduation.

PROFESSIONAL STUDY IN INDUSTRIAL ENGINEERING

A fifth, or professional, year of study is offered in Industrial Engineering as a continuation of the four-year undergraduate program. This fifth year of study offers specialized and advanced course work leading to the degree of Industrial Engineer.

Regulations covering this Degree are shown on pages 130 and 131.

ENGINEERING

TYPICAL PROGRAM

		Credits	
IE 425	Sales and Distribution Methods	0	2
IE 515	Process Engineering	3	0
IE 517	Automatic Processes	3	0
IE 543	Standard Data	3	0
IE 551	Standard Costs for Manufacturing	0	3
IE 581	Project Work	2	2
IE 635	Planning for Production	0	3
IE 671	Seminar	1	1
		12	11

GRADUATE STUDY IN INDUSTRIAL ENGINEERING — — — — —

For general regulations, The Graduate School Catalog should be consulted. Graduate work is offered in Industrial Engineering leading to the degree of Master of Science in Industrial Engineering.

FURNITURE MANUFACTURING AND MANAGEMENT

Professor E. SIGURD JOHNSON, In Charge

OBJECTIVES — — — — —

Any curriculum in the School of Engineering has as an aim the preparation of men capable of handling the technical problems arising in the jobs which they undertake. Where industry is already equipped with qualified engineers, the new employee with a basic engineering education can be given on-the-job training in analyzing and solving the special problems peculiar to the particular plant or industry.

In the case of the furniture industry, practically no experienced engineers exist. To be of service the College must emphasize to a greater extent the application of engineering principles to the problems of the furniture industry. This can be done effectively only if the instructional staff is aware of the problems of the industry from direct contact and not merely from academic discussion and the available literature. Consequently the program has been worked out in conjunction with representatives of the manufacturers. Their viewpoint is based on a survey made among the entire membership of the Southern Furniture Manufacturers' Association. Results of the survey indicate an overwhelming interest in college training to prepare men for work in this industry.

CURRICULUM — — — — —

It is the purpose of the curriculum offering the degree of Bachelor of Science in Furniture Manufacturing to prepare graduates for technical and, eventually, executive positions in the furniture industry. The curriculum will emphasize the application of engineering to furniture manufacturing. Related subjects covering management, labor relations, accounting, marketing and sales will stress the technical as well as the human side of modern production methods and techniques.

STUDENT ACTIVITIES — — — — —

The Industrial Engineering Department sponsors the Furniture Club, which is operated by the students. All students in the curriculum are eligible for membership in the organization. The club brings in speakers from industry and holds social gatherings for the students.

— — — FURNITURE MANUFACTURING AND MANAGEMENT CURRICULUM

1 See page 97

			Credits	
2	ENG 205	Reading For Discovery	0	3
	ENG 211	Business Communications	3	0
	ENG 231	Basic Speaking Skills	0	3
	FOR 201	Wood Structure and Properties	3	0
	FOR 303	Wood Moisture Relations	0	3
	HI 205	The Modern Western World	3	0
	IE 224	Wood Working Equipment	0	3
	PY 211, 212	General Physics	4	4
	PSY 200	Introduction to Psychology	3	0
	TX 271	Upholstery Fabrics	2	0
	MS 201, 202	Military Science or		
	AS 221, 222	Air Science	2	2
	PE 201, 202	Physical Education	1	1
			21	19
3	EC 312	Accounting for Engineers	3	0
	FOR 433	Gluing and Plywood	3	0
	FOR 443	Wood Finishing	0	3
	IE 201, 202	Industrial Engineering I & II	3	3
	IE 322	Furniture Design and Construction	2	0
	IE 326	Furniture Manufacture and Processing	0	4
	SS 301, 302	Contemporary Civilization	3	3
		Tech. Elective	2	3
		Elective	3	3
			19	19
4	EC 432	Industrial Relations	2	0
	FOR 444	Introduction to Quality Control	0	3
	IE 303, 304	Industrial Engineering III, IV	4	4
	IE 341	Furniture Plant Layout and Design	3	0
	IE 451, 452	Seminar	1	1
	SS 491	Contemporary Issues I and		
		Elective in Humanities	3	3
	ST 361	Introduction to Statistics for Engineers	3	0
		Tech. Elective	0	3
		Elective	3	3
			19	17

— — — — — THE DEPARTMENT OF MATHEMATICS

*Professor JOHN W. CELL, Head of the Department**Professors R. C. BULLOCK, J. M. CLARKSON, * W. J. HARRINGTON, JACK LEVINE, C. G. MUMFORD, H. M. NAHIKIAN, H. V. PARK, J. D. PAULSON, H. P. WILLIAMS, L. S. WINTON**Associate Professors A. R. NOLSTAD, G. C. WATSON**Assistant Professors R. C. BOLES, V. R. BRANTLEY, G. C. CALDWELL, E. J. CANADAY, H. C. COOKE, ANNA MAE HARRIS, C. F. LEWIS, C. H. LITTLE, JR., R. A. MACKERRACHER, A. MALTBIE, D. M. PETERSON, H. A. PETREA, P. SHAHDAN, H. E. SPEECE, E. H. TOMPKINS, JR., J. B. WILSON**Instructors C. N. ANDERSON, J. W. BISHIR, F. G. DOLLY, MARTHA J. GARREN, RUTH B. HONEYCUTT, CARLOTTA P. PATTON, J. L. SOX, WILDA WEBSTER*

* On leave

ENGINEERING

OBJECTIVES

There is great need both in industry and in the field of teaching for people trained in applied mathematics. The increasing use of both digital and analog computers and the shift to automation in industry have given rise to requirements for mathematics analysts. The Department of Mathematics offers opportunities in the elementary and advanced courses for the student to learn important concepts in mathematics and to apply these to situations in engineering and the sciences.

CURRICULUM

The curriculum for the Bachelor of Science in Engineering Mathematics has been set up to provide the student with a sound foundation in mathematics, and at the same time to give enough flexibility to permit the student to carry out a rather thorough study in some field of Engineering. The number of required courses has thus been held to a minimum in order that the individual needs of students may be met more readily. It will be the duty of the student's individual adviser to direct the student in the choice of a sound program of electives. The curriculum is designed especially to meet the needs of students who wish to go into positions in industry requiring a good mathematical background and who therefore will require mathematics *plus* a knowledge in some branch of application.

The program for the Master's Degree in Applied Mathematics presupposes either an undergraduate degree in engineering or a degree in applied mathematics, or a Bachelor of Arts degree with proper emphasis in physics or equivalent background material. The student's program will be planned by his graduate advisory committee. A minor is required in one or two fields of engineering or in statistics.

CURRICULUM IN ENGINEERING MATHEMATICS

1 See page 97

			Credits	
2	EC 205	The Economic Process and		
	ENG 205	Reading for Discovery	3	3
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
	MS 201, 202	Military Science II or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
		* Technical Electives	3	3
			18	18
3	MA 401	Differential Equations and		
		*** Mathematics Elective	3	3
	SS 301, 302	Contemporary Civilization	3	3
	ST 361	Introduction to Statistics for Engineers	0	3
		** Engineering Sequence	3	3
		* Technical Electives	8	4
		Elective	3	3
			20	19

All elective courses are to be chosen subject to approval of the student's adviser and of the department head.

* Technical electives may be chosen from any of the below mentioned courses or others in similar areas on consultation with the adviser. Six hours of these electives are normally chosen from ML 101, 102; ML 103, 104; ML 110, 212; ML 112, 113; etc.

** The Engineering sequence is, as a minimum, a four course sequence normally consisting of EM 311, 312, 321, 430, or EM 341, 342, 321, 430 plus ME 301 or four courses chosen from PY 401, 402, 403, 404, 407. Other courses in these areas may be added as technical electives. Other sequences may be chosen from FE 201, 202, 301, 302, 414, 501, 502, 511, 512, CHE 301, 302, 411, 412, 415 ME 301, 302, 351, 352, 453 or equivalent.

*** The Mathematics electives may be chosen from MA 402, 403, 405, 501, 502, 514, 522, 532, 533, 541.

4	MA 511, 512	Advanced Calculus I, II	3	3
	MA 535	An Introduction to Computers and *** Mathematics Elective	3	3
	SS 491	Contemporary Issues I and Humanities Elective	3	3
		** Engineering Sequence Elective	3	3
EC 555		Introduction to Linear Programming or # Statistics	3	0
		* Technical Electives	0	5
			<hr/> 18	<hr/> 20

Statistics electives may be chosen from ST 362, 515, 516, 522.

— — CURRICULUM FOR MASTER OF SCIENCE IN APPLIED MATHEMATICS

The Department of Mathematics feels that a student entering the Graduate School to work toward the degree of Master of Science in Applied Mathematics should be well grounded in mathematics through at least one term of Advanced Calculus (or its equivalent). In addition, he should have a strong background in mechanics and physics, or in some branch of Engineering.

Minimum course requirements for the degree of Master of Science in Applied Mathematics are thirty hours of which six to nine hours must be selected from a minor field which is usually some branch of Engineering, Physics, or Statistics. In addition to the above requirements, the student must write a thesis and show a satisfactory reading knowledge of a foreign language.

For more detailed information see the Graduate Catalog.

— — — — — MECHANICAL ENGINEERING

Professor K. P. HANSON, Head of the Department

Professors J. S. DOOLITTLE, V. M. FAIRES, R. B. KNIGHT, J. F. LEE, P. H.

MCDONALD, JR., R. M. PINKERTON, J. WOODBURN

Associate Professors W. E. ADAMS, W. S. BRIDGES, T. C. BROWN, E. L. HARRISBERGER, J. K. WHITFIELD

Assistant Professors J. J. CLEARY, A. W. FUTRELL, JR., B. F. GOLDHAMMER, T. B. LEDBETTER, P. B. LEONARD, T. J. MARTIN, JR.

Instructors W. E. BLIZARD, C. B. BOMAR, V. E. HOLT, H. K. McMILLAN, R. A. MULLEN, T. L. NASH, E. H. STINSON, J. B. WALKER, B. D. WEBB, C. A. WINGATE, JR.

— — — — — OBJECTIVES

The Mechanical Engineering Department offers a four-year bachelor's program in Mechanical Engineering and in Aeronautical Engineering as an option in the Mechanical field. The curricula in both Mechanical Engineering and the Aeronautical option are accredited by the Engineers' Council for Professional Development.

The mechanical engineer is primarily a designer and builder of machines and other equipment for use in manufacturing processes, transportation and the generation of power. He is responsible for the conservation and economical use of the power-producing resources of the world through the application of the proper equipment in each field of production. He is called upon to take charge of the management of the manufacturing and power industries. For the mechanical engineer to be well grounded in his profession, he must be thoroughly familiar with both the science and the art of engineering.

ENGINEERING

CURRICULUM — — — — —

The curriculum in Mechanical Engineering begins with a thorough training in mathematics, physics and chemistry, as a foundation for the technical work which is later developed along several parallel lines. The student is taught how these fundamental sciences are applied to the physical properties of the materials of construction and to the transformation of heat energy into work and power. This is accomplished by means of courses in theory and through instruction in the mechanical laboratories.

The curriculum in Aeronautical Engineering (option under Mechanical Engineering) embodies the same basic studies as the Mechanical Engineering program, specializing in Aeronautical sciences in the junior and senior years. Graduates of this curriculum are prepared to take their places in the fields of design, production and research in the Aeronautical industries.

The primary objective of the Aeronautical Option is to provide general training in subjects fundamental to Aeronautical Engineering. In general, the professional subjects are directed toward aerodynamics, structures and airplane design with special emphasis on the fundamental treatment of aeronautical science; to familiarize the student with the principles of flight and with the general criteria of design and construction as applied to the airplane. Classroom work is supported by experimental activities in the aeronautical laboratory which offers facilities in wind tunnel, structural and instrument studies. The first three years of study are, for the most part, devoted to fundamental subjects, the strictly professional work being deferred until the fourth year.

Through the training offered in this department, it is hoped that the young graduate, after gaining some experience in industry, will be qualified to accept the responsibilities which will be imposed upon him in Mechanical and Aeronautical industries.

CURRICULUM IN MECHANICAL ENGINEERING — — — — —

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	EM 311	Mechanics I (Statics)	0	3
	ENG 205	Reading for Discovery	3	0
	HI 205	The Modern Western World	0	3
	IE 217, 218	Machine Tools; Metal Forming	1	1
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics I, II	5	5
	MS 201, 202	Military Science II or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
		Elective	3	0
			19	19
3	EM 312	Mechanics II (Dynamics)	3	0
	EM 321	Strength of Materials I	0	3
	EM 430	Fluid Mechanics	0	2
	MA 401	Differential Equations I	3	0
	ME 301, 302	Engineering Thermodynamics I, II	3	3
	ME 305, 306	Mechanical Engineering Laboratory I, II	1	1
	ME 311	Kinematics	3	0
	ME 312	Dynamic Analysis	0	3
	SS 301, 302	Contemporary Civilization	3	3
		Electives, Military or Air Science	3	3
			19	18

SUMMER REQUIREMENT: Six weeks' industrial employment

4	EE 331, 332	Principles of Electrical Engineering	4	4
	ME 401	Power Plants	3	0
	ME 405, 406	Mechanical Engineering Laboratory III, IV	1	1
	ME 411, 412	Machine Design I, II	3	3
	ME 441	Technical Seminar	1	0
	ME 502	Heat Transfer	0	3
	MIM 421, 422	Metallurgy I, II	2	2
	MIM 423	Metallurgy Laboratory	0	1
	SS 491	Contemporary Issues I; and Elective in Humanities	3	3
		Electives, Military or Air Science	3	3
			<hr/> 20	<hr/> 20

CURRICULUM IN AERONAUTICAL OPTION

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	EM 311	Mechanics I (Statics)	0	3
	ENG 205	Reading for Discovery	3	0
	HI 205	The Modern Western World	0	3
	IE 217, 218	Machine Tools; Metal Forming	1	1
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics I, II	5	5
	MS 201, 202	Military Science II or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
		Elective	3	0
			<hr/> 19	<hr/> 19
3	EM 312	Mechanics II (Dynamics)	3	0
	EM 321	Strength of Materials I	0	3
	MA 401	Differential Equations	3	0
	ME 301, 302	Engineering Thermodynamics I, II	3	3
	ME 305, 306	Mechanical Engineering Laboratory I, II	1	1
	ME 311	Kinematics	0	3
	ME 351	Elements of Aeronautical Engineering	3	0
	ME 352	Aerodynamics	0	3
	SS 301, 302	Contemporary Civilization	3	3
		Electives, Military or Air Science	3	3
			<hr/> 19	<hr/> 19

SUMMER REQUIREMENT: Six weeks' industrial employment

4	EE 320	Elements of Electrical Engineering	4	0
	ME 410	Jet Propulsion	0	3
	ME 441	Technical Seminar	1	0
	ME 459	Aircraft Structures	3	0
	ME 455, 456	Aeronautical Laboratory I, II	1	1
	ME 461, 462	Airplane Design I, II	3	3
	ME 536	Aircraft Engines	0	3
	MIM 421, 422	Metallurgy I, II	2	2
	MIM 423	Metallurgy Laboratory	0	1
	SS 491	Contemporary Issues I; and Elective in Humanities	3	3
		Electives, Military or Air Science	3	3
			<hr/> 20	<hr/> 19

HEATING AND AIR CONDITIONING — — — — —

Professor R. B. KNIGHT, *In Charge*

OBJECTIVES — — — — —

The objective of the program in Heating and Air Conditioning offered by the Mechanical Engineering Department is to train young men in this specialized field and prepare them to take positions in industry in the design, construction and operation of heating, ventilating and air conditioning systems as well as in the management of such industries and as sales representatives of companies manufacturing equipment for the trade.

CURRICULUM — — — — —

The curriculum has the first year in common with the regular engineering program and starts specialization in the second year. Sufficient basic science courses are required in the first years to establish a firm foundation for the more technical courses in the later years. Training is accomplished by lecture, recitation and demonstration work with a liberal inclusion of laboratory work illustrating the theory and drawing attention to the practical aspects of the subject. Provision is made for the more liberal aspects of college education through the humanities courses. Electives in the junior and senior years for those who do not choose advanced Military Science allow further liberal or technical education in any group of courses which will meet with the objectives of the individual.

DEGREES — — — — —

The four-year program in Heating and Air Conditioning leads to the degree of Bachelor of Science in Heating and Air Conditioning.

HEATING AND AIR CONDITIONING CURRICULUM — — — — —
FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	EC 205	The Economic Process; and		
	ENG 205	Reading for Discovery	3	3
	EC 312	Accounting for Engineers	0	3
	ENG 211	Business Communications	3	0
	EM 341	Mechanics "A" (Statics)	0	2
	IA 215	Sheet Metal	1	0
	IE 269	Welding and Pipe Shopwork	0	1
	MA 201	Calculus I	4	0
	ME 271, 272	Air Conditioning Drawing I, II	2	2
	PY 211, 212	General Physics	4	4
	MS 201, 202	Military Science II or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			20	18
3	CE 351	Details of Building Construction	2	0
	EE 341, 342	Industrial Electricity	4	4
	EM 342	Mechanics "B" (Dynamics)	2	0
	EM 343	Strength of Materials A	2	0
	EM 430	Fluid Mechanics	0	2
	ME 371, 372	Elementary Heat Power I, II	3	3
	ME 375, 376	Air Conditioning Laboratory I, II	1	1
	ME 381	Air Conditioning I	0	3
	SS 301, 302	Contemporary Civilization	3	3
		Electives, Military or Air Science	3	3
			20	19

SUMMER REQUIREMENT: Six weeks' industrial employment.

4	EC 407	Business Law I	0	3
	EC 425	Industrial Management	3	0
	IE 425	Sales and Distribution Methods	0	2
	ME 379	Mechanical Equipment of Building	0	3
	ME 382	Air Conditioning II	3	0
	ME 473	Refrigeration	3	0
	ME 475, 476	Air Conditioning Laboratory III, IV	1	1
	ME 481, 482	Air Conditioning Design I, II	3	3
	SS 491	Contemporary Issues I; and Elective in Humanities	3	3
		Electives, Military or Air Science	3	3
			<hr/> 19	<hr/> 18

— — — — — **PROFESSIONAL STUDY IN MECHANICAL ENGINEERING**

A fifth, or professional year of study is offered in Mechanical Engineering as a continuation of the four-year undergraduate program. This fifth year of study offers specialized and advanced work leading to the degree of Mechanical Engineer.

Regulations Covering this Degree are Shown on Pages 130 and 131.

CURRICULUM

Typical Programs

			Credits	
5		HEAT-POWER		
	ME 501	Steam and Gas Turbines	3	0
	ME 502	Heat Transfer	0	3
	ME 545, 546	Project Work in Mechanical Engineering I, II	2	2
	ME 601	Advanced Engineering Thermodynamics I	3	0
	ME 603	Advanced Power Plants	3	0
	ME 604	Nuclear Power Plants	0	3
	ME 641, 642	Mechanical Engineering Seminar I, II	1	1
		Approved Electives	3	6
			<hr/> 15	<hr/> 15

5		DESIGN		
	EM 554	Vibration Problems	0	3
	MA 401	Differential Equations	3	0
	ME 515	Experimental Stress Analysis	3	0
	ME 517	Lubrication	0	3
	MIM 521, 522	Advanced Physical Metallurgy I, II	3	3
	ME 545, 546	Project Work in Mechanical Engineering I, II	2	2
	ME 611, 612	Advanced Machine Design I, II	3	3
	ME 641, 642	Mechanical Engineering Seminar I, II	1	1
			<hr/> 15	<hr/> 15

ENGINEERING

		AERONAUTICAL			
5	ME 453	Applied Aerodynamics	3	0	
	ME 502	Heat Transfer	3	3	
	ME 552	Aircraft Applied Loads	3	0	
	ME 554	Advanced Aerodynamic Theory	0	3	
	ME 545, 546	Project Work in Mechanical Engineering I, II	2	2	
	ME 562	Advanced Aircraft Structures	0	3	
	ME 641, 642	Mechanical Engineering Seminar I, II	1	1	
		Approved Electives	3	3	
			15	15	

GRADUATE STUDY IN MECHANICAL ENGINEERING — — — — —

Graduate work leading to the degree of Master of Science in Mechanical Engineering is offered in three specific fields: Heat-Power, Design and Aeronautics. Graduate staff members in these fields are men of national reputation for their achievement and competency. Active research programs in the fundamentals and application of Mechanical Engineering provide excellent opportunities for graduate students to gain competency in their selected field of study.

For general regulations, the Graduate School Catalog should be consulted.

MINERAL INDUSTRIES — — — — —

Professor W. W. AUSTIN, Head of the Department
Professors W. C. BELL, I. FERENCZI, W. W. KRIEDEL, J. M. PARKER, III
Associate Professors W. C. HACKLER, L. J. HUETTER, E. L. MILLER, JR., H. H. STADELMAIER
Special Lecturer A. A. FAHMY
Instructors G. O. HARRELL, H. PALMOUR, III

OBJECTIVES — — — — —

The primary objectives of the Department of Mineral Industries are the training and professional development of qualified technical and administrative leaders for those industries concerned with the location and utilization of mineral resources. Included within this scope of operation are the fields of Geological, Ceramic and Metallurgical Engineering.

CURRICULA — — — — —

Complete four-year undergraduate curricula in Geological, Ceramic and Metallurgical Engineering are available in the Department. Fifth year professional programs are also available for advanced work and specialization in each of these fields, and graduate programs leading to the Master's and Doctor's degrees in Ceramic Engineering, and to the Master's degree in Geological Engineering and Metallurgical Engineering are offered.

FACILITIES — — — — —

The facilities of the Department of Mineral Industries are housed in Page Hall and the Ceramic Building. Located in Page Hall are departmental offices, drawing rooms, classrooms and extensive laboratory facilities for instructional work and research in the three areas of study covered by the department. Typical of the numerous well equipped laboratories in the building are those established for instruction in the following areas of study; ceramic operations and processes, dielectric measurements, ceramic

microscopy, physical geology, mineralogy, mineral dressing, petrology, physical metallurgy and metallography. Other laboratory facilities particularly kilns and furnaces are housed in the Ceramic Building next door. Important additional facilities for instruction and research are located in the Engineering Research Department's Ceramic and Metallurgical Research Laboratories. Here equipment and instrumentation are available for advanced work in high temperature technology, X-Ray diffraction, radiography, electron microscopy and photomicrography.

DEPARTMENTAL STUDENT ACTIVITIES

The Student Branches of the American Ceramic Society, American Society for Metals, and the American Institute of Mining and Metallurgical Engineers (Rockhound Society) through their monthly meetings provide an effective medium for the professional growth of the student engineers. Programs include presentation of student papers, guest speakers and social contact between student and staff. Participation acquaints the student with parliamentary and organizational procedures which are of great importance to professional, industrial and civic life. Students are encouraged to attend Southeastern Section and National meetings of their respective societies. Keramos, the oldest professional engineering fraternity, has an active chapter on the campus. This fraternity is dedicated to the promotion of scholarship, mental achievement and general service to ceramic engineering students. It carries on various projects, one of which is the "Big Brother Project" to help freshmen in their orientation in college life.

CERAMIC ENGINEERING

The undergraduate curriculum in Ceramic Engineering is the result of years of study and development and is designed to meet the challenge of modern civilization. The program of study encompasses a thorough grounding in the basic physical sciences and the fundamental disciplines of engineering. Processes and operations peculiar to ceramic engineering are developed from the viewpoint of interpreting and applying the underlying scientific laws, rather than empirical methods of procedure. The phenomena studied include crushing, grinding, classification and packing of particles, rheological properties of plastic masses, suspensions and slurries, drying of solids, combustion, heat transfer, and high temperature chemical reactions. Production at lowest possible cost and improvement of processes and operations are emphasized throughout the program. Attitudes of research, experimentation and originality of thought are fostered.

Because the Department is dedicated to training young men for leadership, and because of the recognition that responsible leadership should be vested in thinking, well-oriented men, the curriculum includes a planned program of social and humanistic studies. This program is designed to prepare the student for an understanding and appreciation of his responsibilities to society, his profession, and himself, to the end that he will lead a fuller, more productive and satisfying life.

OPPORTUNITIES

Professional training in ceramic engineering provides opportunities for employment in an industry producing a wide variety of essential products including glass in all its forms, enamels and protective coatings for metals, structural clay products such as brick and tile, refractories for furnace linings, thermal insulators, electrical insulators, dielectric components, Portland cement, gypsum products, abrasives, dinnerware, art pottery, bath fixtures and hundreds of other items. In addition to these "end products" ceramics are finding ever increasing applications in the electronic, aviation, guided missile, automotive and atomic energy fields. A continuing shortage of qualified personnel in ceramic engineering has resulted in far more

ENGINEERING

employment offers than there are graduates. Initial employment upon graduation may be in the fields of research and development, in plant operation and control, and in technical sales and service. Such employment may lead to positions as directors of research, consulting and design engineers, sales directors, plant superintendents, production managers and finally administrative officers.

GEOLOGICAL ENGINEERING — — — — —

Geological engineering is a technical field in which geological facts are combined with engineering techniques for the solution of problems concerned mainly with mineral raw material supply and with engineering projects. Many major engineering undertakings, such as construction of large dams and reservoirs, tunnels, and large buildings, depend for success in part on an exact knowledge of their geological setting. On the other hand, such geological problems as the economical development of mineral resources require the use of the precise methods of engineering. In the field of geological engineering, then, geology contributes data concerning the constitution, structure and history of the earth; engineering supplies quantitative, analytical methods whereby physical and chemical laws may be controlled for mankind's benefit. The Geological Engineering curriculum combines those fundamental disciplines regarded as basic to all engineering with training in the aspects of geology that are of most practical application to human affairs.

OPPORTUNITIES — — — — —

A graduate in this curriculum may follow one of two broad fields of engineering, either in the United States or in foreign countries: one, the application of geology to engineering work: the other, the application of geology in the mineral industries. Geological engineers are currently employed and in demand by oil companies and quarrying concerns; exploration companies; construction firms; railroads, public utilities, banks and insurance companies; iron, steel and other metal producers; manufacturers using non-metallic mineral raw materials, as for ceramics, cement, and abrasives, municipal, state and federal government agencies; schools, colleges, museums and research institutes. The southeastern United States offers excellent opportunities for geological engineers. There is a growing need for the application of geological science to engineering construction in connection with highways, foundations, excavations, and in water supply problems. The mineral industry of the southeast has expanded substantially in the last decade; known deposits in the region, as yet only partially developed, include iron, nickel, copper, chromite, molybdenite, feldspar, mica, kaolin, cyanite, sillimanite, pyrophyllite, talc, barite, spodumene, sulphur (pyrite), coal, phosphate, granite, limestone and marl.

METALLURGICAL ENGINEERING — — — — —

The undergraduate curriculum in metallurgical engineering is a standard four-year program designed to produce technically trained leaders for those industries and agencies associated with the development, production, and fabrication of metals and alloys. The major emphasis is on the application of the principles of physical and mechanical metallurgy to engineering problems encountered in these industries. Major sequence courses for the development of this emphasis are offered during the third and fourth years of the curriculum and are preceded by a well rounded program of basic and engineering sciences, and humanities. Because of this arrangement it is possible for a student to complete the first two years of his training at a suitably qualified liberal arts college and to transfer to North Carolina State College for the final two years. While such an arrangement is encouraged it is nevertheless advisable for the prospective transfer

student to seek the guidance and counsel of the Engineering School Administration at the beginning of his college career, in order to minimize difficulties associated with the transfer of credits.

OPPORTUNITIES

Opportunities open to graduates in metallurgical engineering are virtually unlimited. Each year the demand for men with metallurgical training becomes more urgent, and the number of positions presently available is several times greater than the number of graduates. A graduate metallurgical engineer may thus choose from a wide selection of companies, locations and types of work. Among the more important job opportunities open to metallurgical engineers are those in research and development of new alloys so desperately needed as materials of construction in the rapidly expanding fields of chemical, mechanical, aeronautical, and nuclear technology. With the rapid industrialization of the South and particularly the State of North Carolina, new opportunities are constantly developing for metallurgical engineers who will play a vital role in maintaining the forward progress of the State and region.

CURRICULUM IN CERAMIC ENGINEERING

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	EC 205	The Economic Process	0	3
	ENG 205	Reading for Discovery	3	0
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
	CH 215	Quantative Analysis	0	4
	MIM 201	Structure and Properties of Engineering Materials*	3	0
	MS 201, 202	Military Science II		
	or	or		
	AS 211, 212	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			18	19
3	CH 531, 532	Physical Chemistry	3	3
	EM 341	Mechanics A (Statics)	2	0
	EM 342	Mechanics B (Dynamics)	0	2
	EM 343	Strength of Materials A	0	2
	MIC 301, 302	Ceramic Operations I, II	4	3
	MIC 312	Ceramic Process Principles I	0	4
	MIG 120	Physical Geology	3	0
	MIG 330	Mineralogy	3	0
	SS 301, 302	Contemporary Civilization	3	3
		Electives	3	3
			21	20

Summer Requirement: Six weeks' industrial employment

4	EE 320	Elements of Electrical Engineering	0	4
	MIC 413	Ceramic Process Principles II	4	0
	MIC 414	Senior Thesis	0	3
	MIC 415, 416	Ceramic Engineering Design	2	2

* Transfer students who have satisfactorily completed the equivalent of all first and second year courses except MIM 201, and who can present acceptable electives in lieu of this course will be admitted as third year students in ceramic engineering. They will be permitted to take this course in addition to the regular third year program, substituting it for three credits of electives permitted in the third year.

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MIC 420	Industrial Ceramics	3	0
MIC 425	Seminar	1	0
MIC 505	Research and Control Methods	0	3
MIG 531	Optical Mineralogy	3	0
SS 491	Contemporary Issues	3	0
	Humanity Elective	0	3
	Electives	3	3
		<hr/>	<hr/>
		19	18

PROFESSIONAL STUDY IN CERAMIC ENGINEERING — — — — —

A fifth, or professional, year of study is offered in Ceramic Engineering as a continuation of the four-year undergraduate program. This professional year of study offers specialized advanced course work leading to the degree of Ceramic Engineer, and is especially designed for those planning a career in industrial production activities. Each program of study is designed to suit the needs of the individual student. The curriculum shown below is typical of these programs.

REGULATIONS COVERING PROFESSIONAL STUDY ARE SHOWN ON PAGES 130 and 131.

Typical Professional Program in Ceramic Engineering

		Credits	
5	IE 332	Motion and Time Study	0 4
	IE 408	Production Control	3 0
	MIC 507, 508	Advanced Ceramic Experiments	3 3
	MIC 511	Advanced Studies in Firing	3 0
	MIC 527	Refractories in Service	0 3
		Electives	6 5
		<hr/>	<hr/>
		15	15

CURRICULUM IN GEOLOGICAL ENGINEERING — — — — —

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

2	EC 205	The Economic Process	0 3
	ENG 205	Reading for Discovery	3 0
	MA 201, 202	Calculus I, II	4 4
	PY 201, 202	General Physics	5 5
	CH 215	Quantitative Analysis	0 4
	MIG 120	Physical Geology*	3 0
	MS 201, 202	Military Science	
	or	or	
	AS 211, 212	Air Science	2 2
	PE 201, 202	Physical Education	1 1
		<hr/>	<hr/>
		18	19

* Transfer students who have satisfactorily completed the equivalent of all first and second year courses except MIG 120, and who can present acceptable electives in lieu of this course will be admitted as third year students in geological engineering. They will be permitted to take this course in addition to the regular third year program, substituting it for three credits of electives permitted in the third year.

3	CE 201	Surveying I	3	0
	CH 531, 532	Physical Chemistry	3	3
	EM 341	Mechanics A (Statics)	2	0
	EM 342	Mechanics B (Dynamics)	0	2
	EM 343	Strength of Materials	0	2
	MIG 222	Historical Geology	3	0
	MIG 330	Mineralogy	3	0
	MIG 372	Elements of Mining Engineering	0	4
	MIG 442	Petrology	0	3
	SS 301, 302	Contemporary Civilization	3	3
		Electives	3	3
			<hr/>	<hr/>
			20	20

Summer Requirements: Six weeks' industrial employment.

Or summer camp in Geological Engineering

4	EE 320	Electrical Engineering	4	0
	EM 430	Fluid Mechanics	0	2
	MIG 351	Structural Geology	3	0
	MIG 411, 412	Economic Geology	3	3
	MIG 452	Sedimentation and Stratigraphy	0	3
	MIG 462	Geological Surveying	0	3
	MIG 481, 482	Senior Seminar	1	1
	MIG 531	Optional Mineralogy	3	0
	SS 491	Contemporary Issues	3	0
		Humanities Elective	0	3
			3	3
			<hr/>	<hr/>
			20	18

— — — — — PROFESSIONAL STUDY IN GEOLOGICAL ENGINEERING

A fifth, or professional, year of study is offered in Geological Engineering as a continuation of the fourth-year undergraduate program. This fifth year of study offers specialized and advanced work leading to the degree of Geological Engineer.

Regulations Governing Professional Study are Shown on Pages 130 and 131.

Typical Professional Program in Geological Engineering

			Credits	
5	MIG 461	Engineering Geology	3	0
	MIG 522	Petroleum Geology	0	3
	MIG 552	Geophysics	0	3
	MIG 571, 572	Mining and Mineral Dressing	3	4
	MIG 581	Geomorphology	3	0
	MIG 611, 612	Advanced Economic Geology	3	3
		Electives	3	3
			<hr/>	<hr/>
			15	15

ENGINEERING

CURRICULUM IN METALLURGICAL ENGINEERING — — — — —
FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

		Credits	
2	EC 205	The Economic Process	0 3
	ENG 205	Reading for Discovery	3 0
	MA 201, 202	Calculus I, II	4 4
	PY 201, 202	General Physics	5 5
	CH 215	Quantitative Analysis	0 4
	MIM 201	Structure and Properties of Engineering Materials I*	3 0
	MS 201, 202	Military Science	
	or	or	
	AS 211, 212	Air Science	2 2
	PE 201, 202	Physical Education	1 1
		<hr/>	<hr/>
		18	19
3	CH 531, 532	Physical Chemistry	3 3
	EM 341	Mechanics A (Statics)	2 0
	EM 342	Mechanics B (Dynamics)	0 2
	EM 343	Strength of Materials	0 2
	IE 217	Machine Tools	1 0
	IE 218	Metal Forming	1 0
	MIM 331, 332	Physical Metallurgy I, II	3 3
	SS 301, 302	Contemporary Civilization	3 3
		Minor Sequence Courses	3 3
		Electives	3 3
			<hr/>
			19 19

Summer Employment: Six weeks' industrial employment.

4	EE 320	Electrical Engineering	0 4
	EM 430	Fluid Mechanics	2 0
	MIM 401, 402	Metallurgical Operations	4 4
	MIM 431, 432	Metallography	3 3
	MIM 451, 452	Seminar	1 1
	SS 491	Contemporary Issues	3 0
		Minor Sequence Courses	3 3
		Humanities Elective	0 3
		Electives	3 3
			<hr/>
		19	21

* Transfer students who have satisfactorily completed the equivalent of all first and second year courses except MIM 201, and who can present acceptable electives in lieu of this course will be admitted as third year students in metallurgical engineering. They will be permitted to take this course in addition to the regular third year program, substituting it for three credits of electives permitted in the third year.

PROFESSIONAL STUDY IN METALLURGICAL ENGINEERING — — — — —

A fifth, or professional, year of study is offered in Metallurgical Engineering as a continuation of the four-year undergraduate program. This professional year of study offers specialized and advanced course work leading to the degree of Metallurgical Engineer, and is especially designed for those planning a career in industrial production activities. Each program of study is designed to suit the needs of the individual student. The curriculum shown on the following page is typical of these programs.

REGULATIONS COVERING PROFESSIONAL STUDY ARE SHOWN ON PAGES 130-131.

Typical Professional Program in Metallurgical Engineering

		Credits	
MIM 521, 522	Advanced Physical Metallurgy	3	3
MIM 523, 524	Metallurgical Factors in Design	2	2
MIM 445, 446	Experimental Engineering	3	3
PY 407	Modern Physics	3	0
CHE 502	Electrochemical Engineering	0	3
ME 502	Heat Transfer	3	0
ME 515	Experimental Stress Analysis	0	3
MIM 451, 452	Metallurgical Engineering Seminar	1	1
		<hr/> 15	<hr/> 15

THE PHYSICS DEPARTMENT

Professor A. C. MENIUS, JR., Head of the Department

Professors FORREST W. LANCASTER, J. S. MEARES, RAYMOND L. MURRAY, Graduate Administrator; R. H. SNYDER, NEWTON UNDERWOOD, A. W. WALTNER.

Associate Professors J. T. LYNN, R. F. STAINBACK

Assistant Professors ANTONIOS ANTONAKOS, E. J. BROWN, WILLIAM R. DAVIS

Instructors R. L. CHAPLIN, R. L. DOUGH, RAOUL M. FREYRE, MINNIE C. HARRIS, M. K. MOSS

OBJECTIVES

Physics is one of the sciences upon which Engineering and other branches of technology are based. The Department offers several general physics courses adapted to the needs of other departments and a number of advanced courses in specialized fields of physics available as electives to graduates and undergraduates of all departments.

In addition to its program of service instruction in support of and in cooperation with programs of training in other technical fields, the Physics Department offers instructional programs in two applied fields: Engineering Physics and Nuclear Engineering. Curricula have been developed in each of these fields at both the undergraduate and graduate levels.

Organization of a course of study in Nuclear Engineering, first accomplished in 1950, represented a pioneering educational venture into this new area of engineering science. Emphasis is placed on nuclear radiations and the physics of nuclear reactors.

CURRICULA

ENGINEERING PHYSICS

The curriculum in Engineering Physics is designed to provide a student with training in and a working knowledge of both general physics and basic engineering. It is anticipated that such a program will develop men with the ability to apply the principles of physics in research or in the solution of engineering problems. Theoretical and applied courses are specified, along with the humanities at the undergraduate level. In addition, elective courses in related fields of interest to the student are available.

There is a rapidly growing demand for men with practical skill and scientific training to work in the borderline field between engineering and pure physics. The Engineering Physics program is designed to meet this need.

NUCLEAR ENGINEERING

The Nuclear Engineering curriculum is offered in response to the requirements of industry and research organizations for engineers equipped with the basic knowledge of science and of nuclear technology. The curriculum is planned to include a basic core of required courses and a number of technical elective courses in engineering or mathematics.

The degree of Bachelor of Nuclear Engineering or Engineering Physics is awarded upon satisfactory completion of the prescribed four-year curricula. For those desiring further training, graduate programs terminating in a Master's or a Doctor's degree in Nuclear Engineering or Engineering Physics are offered.

CURRICULUM IN ENGINEERING PHYSICS — — — — —

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	EM 341	Mechanics A (Statics)	0	2
	IE 217, 218	Machine Tools and Metal Forming	1	1
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
	MS 201, 202	Military Science		
	or	or		
	AS 221, 222	Air Science	2	2
	PE 201, 202	Physical Education	1	1
		Technical Electives	3	0
		Humanities	3	3
			19	18
3	EE 331, 332	Principles of Electrical Engineering	4	4
	EM 342	Mechanics B (Dynamics)	2	0
	EM 343	Strength of Materials A	0	2
	MA 401	Differential Equations	3	0
	PY 401, 402	Intermediate Physics I	4	4
	PY 407	Introduction to Modern Physics	0	3
	SS 301, 302	Contemporary Civilization	3	3
		Electives, Military or Air Science	3	3
			19	19
4	EM 430	Fluid Mechanics	0	2
	ME 301	Engineering Thermodynamics I	3	0
	PY 403, 404	Intermediate Physics II	4	4
	SS 491	Contemporary Issues I and		
		Elective in Humanities	3	3
		Technical Electives	6	8
		Electives, Military or Air Science	3	3
			19	20

CURRICULUM IN NUCLEAR ENGINEERING

FOR THE FRESHMAN YEAR, REFER TO PAGE 97.

			Credits	
2	EM 341	Mechanics A (Statics)	0	2
	MA 201, 202	Calculus I, II	4	4
	PY 201, 202	General Physics	5	5
	MS 201, 202	Military Science		
	or	or		
	AS 221, 222	Air Science	2	2
	PE 201, 202	Physical Education	1	1
		Technical Electives	3	0
		Humanities	3	3
			<hr/> 18	<hr/> 17
3	EM 342	Mechanics B (Dynamics)	2	0
	EM 343	Strength of Materials A	2	0
	MA 401	Differential Equations	3	0
		(Advanced Calculus or Advanced		
		Differential Equations)	0	3
	ME 301*	Engineering Thermodynamics I	0	3
	PY 401, 402	Intermediate Physics I or		
	PY 403, 404	Intermediate Physics II	4	4
	PY 407	Introduction to Modern Physics	3	0
	PY 410	Nuclear Physics I	0	4
	SS 301, 302	Contemporary Civilization	3	3
		Electives, Military or Air Science	3	3
			<hr/> 20	<hr/> 20
4	EE 320	Elements of Electrical Engineering	4	0
	EM 430	Fluid Mechanics	0	2
	PY 419	Introduction to Nuclear Engineering	2	0
	PY 518	Radiation Hazard and Protection	3	0
	PY 520	Physical Technology in Radioactivity	0	3
	PY 530	Elementary Nuclear Reactor Theory	0	3
	SS 491	Contemporary Issues I and		
		Elective in Humanities	3	3
		Technical Electives	5	6
		Electives, Military or Air Science	3	3
			<hr/> 20	<hr/> 20

* CHE 415 Chemical Engineering Thermodynamics, may be substituted.

GRADUATE STUDY

MASTER OF SCIENCE

The Master of Science program in Engineering Physics is intended to provide advanced study in special areas of general physics, engineering and mathematics. The Master of Science program in Nuclear Engineering provides study in reactor physics, nuclear physics, engineering and mathematics. A research thesis is required for each degree. The time normally required to complete the degree is about three semesters, because of pre-requisites.

Equipment available in the department for use in Master's and Doctor's research problems includes a heterogeneous nuclear reactor, homogeneous reactor and a subcritical assembly. Laboratory training is provided also by the use of these reactors.

ENGINEERING

CURRICULUM FOR MASTER OF SCIENCE IN ENGINEERING PHYSICS

		Credits
	Mathematics (above 400 level)	6
PY 601, 602	Advanced General Physics	6
PY 670	Seminar	2
PY 690	Research	4
	Electives	12
		<hr/> 30

CURRICULUM FOR MASTER OF SCIENCE IN NUCLEAR ENGINEERING

		Credits
	Mathematics (above 400 level)	6
PY 670	Seminar	2
PY 690	Research	4
	Electives	9
	At least three of the following courses:	9
	Radiation Hazard and Protection	
PY 518	Advanced Nuclear Physics	
PY 610	Quantum Mechanics	
PY 611	Heterogeneous Reactor Design	
PY 619	Homogeneous Reactor Design	
PY 630		
		<hr/> 30

DOCTOR OF PHILOSOPHY

In the spring of 1950 the Graduate School of the Consolidated University of North Carolina granted authority to the Physics Department of State College to enroll students for training to the doctorate level. In addition to the resources and facilities of the Physics Department, those of other departments at State College and of the Physics and Mathematics Departments of the University of North Carolina at Chapel Hill are available to these advanced students as their particular programs may require. Facilities are most extensive for work in the general fields of applied nuclear physics. The usual rules and regulations of the Graduate School apply to students enrolled in the doctorate program in Physics. For general regulations, the Graduate School Catalog should be consulted.

THE PROFESSIONAL PROGRAM IN ENGINEERING — — —

The School of Engineering offers fifth-year professional curricula leading to the degrees Ceramic Engineer, Civil Engineer, Chemical Engineer, Electrical Engineer, Geological Engineer, Industrial Engineer and Mechanical Engineer. These curricula are tailor-made to fit the particular needs of each student with a view that upon completion of a program the student will be prepared to pursue a professional career in engineering.

It is the intent of the fifth-year program to emphasize professional course work rather than research. To this end, a curriculum is comprised of 30 semester credits of course work requiring of the student a minimum of one academic year in residence; neither a thesis nor a reading knowledge of a foreign language is required. Samples of curricula that meet the requirements of the fifth-year program may be found under the appropriate Departmental curricula. These curricula are to be considered illustrative; the actual programs of study will be especially designed to fit the needs of the individual student.

ADMISSION

Applicants who hold the bachelor's degree in engineering from recognized colleges will be admitted to the professional program of the School of Engineering upon presentation of official credentials. For unconditional admission, these credentials must show the completion, with a minimum grade point average of 2.5 (C+), of an amount of undergraduate work in the proposed field of professional study corresponding to that normally required for a bachelor's degree in that field.

Admission on a provisional basis may be granted applicants who do not meet the formal requirements. In case of insufficient preparation, prerequisite courses will be prescribed in addition to the normal fifth-year course requirements.

Applications for admission, accompanied by full credentials in the form of transcripts of academic records, should be filed in the office of the Dean of Engineering at least thirty days in advance of the semester in which admission is sought.

GENERAL REGULATIONS

The following regulations of the School of Engineering will be observed:

1. An undergraduate enrolled at North Carolina State College, who plans to undertake a professional program and who has fulfilled all requirements for the bachelor's degree except one or two courses, may be permitted to enroll in certain courses and later obtain credit toward the professional degree provided the student gives notice of his purpose to the Dean of the School of Engineering. The maximum credit to be obtained in this way is 6 semester course credits.

2. Credit for professional work to be applied toward the requirements for the professional degree, not to exceed 6 semester credits, may be transferred to North Carolina State College from recognized institutions of university grade offering advanced work in engineering and related fields. Such a transfer of credit must be recommended by the head of the department in which the student does his major work and it must be approved by the Dean of Engineering.

3. Fifth-year students are classified as post-baccalaureate students and are subject to rules and regulations as established and administered by the Dean of Engineering.

4. Grades for each completed course are reported to the Dean of Engineering and to the Office of Registration. A minimum grade of C must be made in each course to obtain credit. A quality point average of 2.5 (C+) in all course work must be attained to satisfy requirements for a professional degree.

5. Work completed more than six years prior to the date on which the professional degree is to be granted may not be used as credit toward the professional degree, unless approved by the head of the department concerned and the Dean of Engineering.

6. Each fifth-year student will be assigned to a committee consisting of his department head and the professor in charge of the work in which he is majoring. The function of this committee is to assist the student in preparing a program of study and to counsel him in his academic work. The student will be required, with the assistance of his committee, to prepare a complete plan of study before mid-semester of his first semester in residence. This program of study is subject to the approval of the Dean of Engineering.

SCHOOL OF FORESTRY

RICHARD J. PRESTON, DEAN

Professor J. V. HOFMANN, Director Emeritus and Manager North Carolina Forestry Foundation

Professors J. S. BETHEL, R. C. BRYANT, R. M. CARTER, C. E. LIBBY, T. E. MAKI, G. K. SLOCUM

Associate Professors W. D. MILLER, B. J. ZOBEL

Assistant Professors A. C. BAREFOOT, H. D. COOK, C. A. HART, R. G. HITCHINGS, R. J. THOMAS

Geneticist R. L. MCELWEE

INTRODUCTORY — — — — —

While forestry has been recognized and practiced for centuries in Europe, this profession is relatively new in the United States, dating from about the beginning of the present century. During the period of rapid expansion and development of our country the forests were badly neglected and abused. Now, however, with our timber supplies depleted and the value of timber products increasing, sound forest practices have been accepted as economically desirable and feasible. Increasing the productivity and quality of our forests is basic to the welfare of the Southeast. The importance of the forest resource in the economy of North Carolina is brought out by the fact that sixty-two per cent of the land area is in forest, with wood products industries ranking next to textiles as a source of industrial employment.

Through a program which offers a broad training in the physical and biological sciences as well as a sound cultural background, the School of Forestry prepares students for service in the two major professional fields of forest management and wood utilization.

CURRICULA — — — — —

The School offers undergraduate instruction leading to the degree of Bachelor of Science in the two major professional fields of forest management and wood utilization, the latter including Wood Technology, Pulp and Paper Technology and Wood Products Merchandising. All curricula have a common freshman year thus enabling the student to postpone selection of a major field until he has had an opportunity to become acquainted with its scope and possibilities.

Forest Management deals with all phases of the management of wild lands and includes such related subjects as water-shed protection, wild-life management and recreation. In order that the student may be adequately prepared for work of such diverse nature, the curriculum provides training in such subjects as silviculture, timber estimating, management, fire prevention and control, forest pathology, insect control, forest soils, economics and other aspects of land use.

The course of study in Wood Technology, which is concerned with the technical aspects of utilization, includes training in all types of wood using and wood manufacturing industries. It incorporates technical and practical principles of logging, milling, seasoning, gluing, preserving, finishing, fabricating and machining.

Pulp and Paper Technology trains men for work in pulp and paper plants. Students are given thorough training in chemistry, mathematics,

physics, wood structure and properties, pulping processes and engineering subjects related to pulp and paper manufacturing.

Wood Products Merchandising covers the distribution, selling and use of lumber and of products made from wood. This curriculum combines a broad background of business administration with a sound knowledge of the products being handled.

DEGREES

The Bachelor of Science degree is conferred upon completion of any of the four-year curricula in the areas mentioned above.

Professional preparation beyond the four-year curricula is desirable, and qualified students are urged to plan a five-year program leading to the Master's degree. For students desiring a thorough professional background, the School offers the degree of Master of Forestry or of Master of Wood Technology; the degree of Master of Science in these two fields is offered for those desiring specialization in the fields of scientific research.

The degree of Doctor of Philosophy is offered in several fields in forestry.

Further information regarding graduate study is contained in the Graduate School Catalog which may be obtained from the Dean of the Graduate School.

FACILITIES AND PROGRAMS

The School of Forestry is housed in Kilgore Hall on the west side of the campus. This new forestry building provides outstanding classroom and laboratory facilities.

WOOD PRODUCTS LABORATORY

The Wood Products Laboratory, housed on the first floor of the new Forestry Building and in separate buildings on Western Boulevard, contains general wood shop equipment, a veneer lathe and clipper, glue mixers and spreaders, tape machine and hot presses, testing equipment, preservation tanks, a modern dry kiln, and two portable sawmills. This equipment, available for teaching, student experience and research, provides an unexcelled laboratory for practical production processing of dimension stock, furniture, plywood and other wood products.

PULP AND PAPER LABORATORY

The recently completed Pulp and Paper Laboratory located on Western Boulevard provides modern offices and classrooms as well as laboratories for pulping, paper making, paper and pulp testing, coloring and fiber analysis.

SCHOOL FORESTS

The School of Forestry, with more than 82,000 acres of forest land available and three permanent field camps, has facilities unexcelled in many respects for field instruction and research.

The Hofmann Forest, owned and operated by the North Carolina Forestry Foundation for the benefit of the School of Forestry, consists of approximately 78,000 acres located in Jones and Onslow counties in the southeastern portion of the state. Pond and loblolly pine together with hardwood and cypress swamps characterize this tract. Part of the spring semester of the Senior year is spent in the permanent camp located in this forest.

The George Watts Hill Demonstration Forest is a tract of 1,500 acres located sixteen miles north of Durham. This typically piedmont forest of rolling terrain contains stands of loblolly, shortleaf and Virginia pines along with numerous hardwoods. The permanent summer camp for sophomores is located in this area.

FORESTRY

The Wayah Recreational Area in the North Carolina National Forest near Franklin is located in a typical mountain forest. Facilities at this area have been leased from the Government. Portions of the spring semester of the Senior year and of the sophomore summer camp are held in permanent quarters on this mountain tract.

The Richland Creek Farm Forest of 300 acres located four miles northwest of the campus is being developed into a model farm forest and is used for field instruction near the campus.

The Hope Valley Forest is a 1700-acre tract located five miles southeast of Chapel Hill and is used for instruction and research.

The School nursery, located on the campus, is fully equipped for instruction purposes and the production of planting stock.

FIELD INSTRUCTION AND EXPERIENCE

All students are required to present a minimum of one summer of acceptable work experience in order to meet the graduation requirements. Students are required to consult with their advisers regarding the types of employment that will be acceptable.

The ten-week Sophomore summer camp is a general requirement for students in the Forest Management, Wood Technology and Wood Products Merchandising curricula. Students in the Forestry Management curriculum are also required to attend camp during the last half of the spring semester of the Senior year. Permanent, well-equipped camps are maintained in coastal, piedmont and mountain forests. A "C" average is required for admission to these camps.

Additional field instruction and scheduled trips to representative wood industries are required of all students as a part of their class assignments. To cover the costs of this off-campus training, all students enrolled in the School of Forestry pay a field laboratory fee of \$10.00 each year at the time they first register for the school year. Room rent of \$20.00 is charged for both the summer and spring camps.

OPPORTUNITIES — — — — —

A wide and rapidly expanding field of employment possibilities is available in the Southeast to young men trained in forestry. Until recent years most job opportunities were with government agencies in managing public forests, and this still constitutes a major source of employment. These agencies include state and federal forest services, extension services, and other groups such as the Soil Conservation Service and the Tennessee Valley Authority.

In recent years job opportunities with private industries have expanded greatly. Increasing numbers of technically trained young men are entering a wide variety of professional positions in the fields of forest land management, watershed management, logging, sawmilling, veneer and plywood manufacturing, pulp and paper making, kiln drying, wood preservation and the manufacture of wood products such as furniture, dimension stock and various prefabricated items.

The merchandising of lumber and lumber products offers numerous opportunities for students qualified for sales, business administration or small building construction. Sawmills and lumber yards, plywood and paper manufacturers, and flooring, wallboard and other forest products plants need trained men.

Exceptional students will find opportunities for employment in research or teaching. This type of work ordinarily requires a graduate degree. There has been an increasing demand for well-trained woodlands managers and wood technologists, as well as for research workers in government experiment stations and laboratories.

Over eighty per cent of the graduates of the School of Forestry are now employed in some field of forest or wood products work. The few students who have not followed the forestry profession have found their college education sufficiently broad to provide a sound basis for a wide variety of work.

SHORT COURSES

In cooperation with the College Extension Division and other departments of State College, short courses are offered to personnel in wood-using industries. These courses vary from a few days to a few weeks in length and cover such subjects as aerial photo interpretation, lumber merchandising, seasoning and kiln drying, lumber grading, gluing, wood preservation, and quality control and wood finishing. Additional courses in other fields of forestry will be offered as the need arises. In addition to the faculty of the School of Forestry, experts from the trade associations, federal laboratories and private industry are called in to furnish instruction. Class and laboratory facilities of State College are available for these courses. These vocational courses provide to men in industry an opportunity to keep abreast of modern developments in methods and equipment.

FELLOWSHIPS, SCHOLARSHIPS, AND LOAN FUNDS

A number of undergraduate scholarships, research assistantships and teaching fellowships are available to qualified students. Students interested in applying should write to the Dean of the School of Forestry.

The Hofmann Loan Fund was established by alumni of the School of Forestry to honor Dr. J. V. Hofmann, the first Director of the Division. Loans to worthy students are available through the Student Loan Fund established by the State College Alumni Association.

Many students help pay their expenses through part-time work at the College or in town. The Self-Help Secretary of the College Y.M.C.A. assists in locating employment.

COURSES OF STUDY IN THE SCHOOL OF FORESTRY
FOR ALL FORESTRY CURRICULA

1	BO 101, 102	General Botany	3	3
	CH 101, 103	General Inorganic Chemistry; General		
	or	and Qualitative Chemistry; or		
	CH 203*	General and Organic Chemistry	4	4
	ENG 111, 112	Composition	3	3
	FOR 101, 102	Introduction to Forestry	2	2
	MA 111, 112**	Algebra and Trigonometry; Analytic		
		Geometry and		
		Calculus A	4	4
	MS 101, 102	Military Science I		
	or	or		
	AS 121, 122	Air Science I	2	2
	PE 101, 102	Physical Education	1	1
			19	19

* All students take Chem. 101, Inorganic Chemistry first; students in Forest Management or Wood Products Merchandising will take Chem. 203. Organic Chemistry, the second semester, students in Pulp and Paper Technology and Wood Technology will take Chem. 103, Qualitative Analysis.

** Students in Wood Technology and Pulp and Paper Technology who have studied Solid Geometry in High School should take MA 101 and 102.

FOREST MANAGEMENT

Professor T. E. MAKI, In Charge

OBJECTIVES

Forest Management is the application of business methods and technical forestry principles to the operation of forest properties. This field requires a knowledge of individual trees and timber stands, of different forest types

FORESTRY

and entire forest areas, as well as of the basic biological relationships within the forests. It also requires a knowledge of land surveying, timber cruising, measurement of forest products, and of the economic factors involved in the business of growing wood crops.

CURRICULUM — — — — —

The curriculum in Forest Management is organized to provide a broad basic training and also to permit limited specialization. To accomplish the latter goal, the curriculum includes 30 elective credits. At the beginning of his junior year, the student selects one of the five areas of specialization listed and chooses courses listed under this field for his elective credits. The curriculum leads to the degree of Bachelor of Science in Forest Management. A minimum of 157 credits is required for graduation.

OPPORTUNITIES — — — — —

Students who complete the curriculum are trained for positions with pulp companies, lumber companies and other private landowners; federal and state forest services; agricultural extension; and for private enterprise as consultants, forest landowners or sawmill operators.

CURRICULUM IN FOREST MANAGEMENT — — — — —

			Credits	
2	SOI 200	Soils	0	4
	BO 211, 212	Dendrology	2	2
	CE 217	Forestry Surveying	0	4
	EC 201	Economics	3	0
	FOR 201	Wood Structure and Properties I	3	0
	PY 211	General Physics	4	0
		Social Science Electives	3	3
	ZO 102	General Zoology	0	3
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			18	19

SUMMER CAMP

	FOR S204	Silviculture		2
	FOR S214	Dendrology		2
	FOR S224	Forest Mapping		2
	FOR S264	Protection and Utilization		2
	FOR S274	Mensuration		2
				10
3	PO 421	Plant Physiology	4	0
	ENG 321	Scientific Writing and English Elective	3	3
	ENT 301	Introduction to Forest Insects	3	0
	FOR 361	Silvics	0	3
	FOR 272	Mensuration	3	0
	PP 313	Diseases of Forest Trees	0	3
		Social Science Elective	0	3
		Electives	6	6
			19	18

		Credits	
4	FOR 404	Management Plans (Camp)	0 3
	FOR 405	Forest Inventory (Camp)	0 2
	FOR 406	Forest Industries (Camp)	0 2
	FOR 407	Field Silviculture (Camp)	0 2
	FOR 423	Logging and Milling	3 0
	FOR 501	Forest Valuation	3 0
	FOR 511	Silviculture (8 weeks)	0 3
	FOR 512	Forest Economics	3 0
	FOR 531	Forest Management (8 Weeks)	0 3
	FOR 553	Forest Photogrammetry (8 Weeks)	0 2
	ST 311	Introduction to Statistics	3 0
		Elective	6 0
			<hr/> 18 17

— — — — — FOREST MANAGEMENT, FIELDS OF SPECIALIZATION

A student should select one of the following fields of specialization and choose elective courses from those listed under each field.

GENERAL FORESTRY

		Credits	
BO 441	Plant Ecology	3	0
FOR 422	Forest Products	3	0
FOR 452	Forest Grazing	2	0
FOR 462	Artificial Forestation	0	2
FOR 472	Forest Policy and Administration	2	0
MIG 120	Physical Geology	3	or 3
RS 301	Sociology of Rural Life	3	or 3
ZO 312	Game Management	3	0

UTILIZATION

FOR 202	Structure and Properties II	0	2
FOR 303	Wood-Moisture Relations	0	2
FOR 401	Wood Preservation	0	2
FOR 433	Gluing and Plywood	3	0
FOR 441	Mechanical Properties of Wood	3	0
FOR 442	Furniture Construction and Assembly	3	0
FOR 443	Wood Finishing	0	3
FOR 481	Pulping Processes and Products	2	0

FOREST WILDLIFE MANAGEMENT

BO 441	Plant Ecology	3	0
FOR 452	Forest Grazing	2	0
ZO 101	General Zoology	3	or 3
ZO 252	Ornithology	0	3
ZO 301	Animal Physiology	3	or 3
ZO 521	Fishery Biology	3	0
ZO 522	Animal Ecology	0	3
ZO 544	Mammology	0	3
ZO 551, 552	Wildlife Management	3	3

FOREST NURSERY PRACTICE

AGE 321	Irrigation, Drainage & Terracing	4	0
SOI 341	Soil Fertility & Management	0	3
FC 414	Weeds and Their Control	0	3
BO 312	General Bacteriology	4	or 4

FORESTRY

BO 532, 533	Advanced Plant Physiology	2	2
EC 401, 402	Principles of Accounting	3	3
ENT 571	Forest Entomology	3	0
GN 411	Principles of Genetics	3	or 3
HRT 301	Plant Propagation	3	or 3
HRT 311	Nursery Practice	3	0
HRT 481	Breeding of Horticulture Plants	3	0

PARKS AND RECREATION

BO 403	Systematic Botany	0	3
MIG 120	Physical Geology	3	or 3
PSY 200	Introduction to Psychology	3	or 3
RS 301	Sociology of Rural Life	3	or 3
SOC 202	Man and Society (General Sociology)	3	or 3
ZO 101	General Zoology	3	or 3
ZO 252	Ornithology	0	3
ZO 544	Mammalogy	0	3

GRADUATE OR RESEARCH

BO 403	Systematic Botany	0	3
BO 441	Plant Ecology	3	0
CH 103	General and Qualitative Chemistry	4	or 4
CH 215	Quantitative Analysis	4	or 4
MA 211, 212	Analytic Geometry and Calculus B, C	3	3
ML	Foreign Language	3	3
PY 212	General Physics	4	4

WOOD TECHNOLOGY — — — — —

Professor R. M. CARTER, In Charge

CURRICULUM — — — — —

The Wood Technology Curriculum trains men for many assignments in manufacturing wood products. It involves a basic knowledge of the sciences combined with business economics. Experience in wood manufacturing methods is gained by student operation of modern production equipment in the Wood Products Laboratory. In addition, all students graduating from this curriculum must have a minimum of one summer's acceptable work experience.

An opportunity for student selection of courses to meet special interests is provided through 40 elective credits. At the beginning of the Junior year, each student selects one of the three listed fields of specialization and chooses for many of his elective credits courses listed under this field.

This curriculum leads to the degree of Bachelor of Science in Wood Technology. A minimum of 158 credits is required for graduation.

OPPORTUNITIES — — — — —

A career with wood industries offers a variety of opportunities for young men trained in wood properties, manufacturing operations and business methods. The application of new processes and materials in the conversion of timber into the thousands of wood products has created a demand for technically trained men. Companies manufacturing lumber, veneer and plywood, hardwood dimension stock, furniture, millwork, flooring, pianos, caskets, wood turnings, adhesives, preservatives, finishing materials and composition boards are types of industries interested in employing graduates.

CURRICULUM IN WOOD TECHNOLOGY

			Credits	
2	CH 203	Organic Chemistry	0	4
	EC 201	Economics	3	0
	FOR 201	Wood Structure and Properties I	3	0
	FOR 303	Wood-Moisture Relations	0	3
	IE 224	Wood Working Equipment	0	3
	MA 211, 212	Analytic Geometry and Calculus B, C	3	3
	ME 101	Engineering Graphics	2	0
	PY 211, 212	General Physics	4	4
	MS 201, 202	Military Science II		
	or	or		
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education	1	1
			<hr/>	<hr/>
			18	20

SUMMER CAMP

S*	FOR S204	Silviculture		2
	FOR S214	Dendrology		2
	FOR S224	Forest Mapping		2
	FOR S264	Protection and Utilization		2
	FOR S274	Mensuration		2
				<hr/>
				10

3	ENG 231	Basic Speaking Skills	0	3
	FOR 202	Wood Structure and Properties II	0	2
	FOR 423	Logging and Milling	3	0
	FOR 433	Gluing and Plywood	3	0
	FOR 441	Mechanical Properties of Wood	3	0
	ST 361	Introduction to Statistics for Engineers	0	3
		Social Science Electives	3	3
		Electives	6	7
			<hr/>	<hr/>
			18	18

4	FOR 401	Wood Preservation	0	2
	FOR 402	Foundations of Forest Management	2	0
	FOR 442	Furniture Construction and Assembly	3	0
	FOR 443	Wood Finishing	0	3
	FOR 444	Introduction to Quality Control	0	3
	FOR 512	Forest Economics	3	0
		English Elective	0	3
		Social Science Elective	3	0
		Electives	8	6
			<hr/>	<hr/>
			19	17

* Students with comparable experience, upon faculty approval, may substitute one additional summer's work experience for Summer Camp. After completion of 12 weeks of plant experience and presentation of a satisfactory report three hours of academic credit will be granted.

FORESTRY

WOOD TECHNOLOGY, FIELDS OF SPECIALIZATION — — — — —

A student should select one of the following fields of specialization. Courses marked with an asterisk (*) are required. Technical electives should be scheduled from the remaining courses listed in the field of specialization.

HARDWOOD DIMENSION AND LUMBER

		Credits	
EC 401, 402*	Principles of Accounting	3	3
EC 425	Industrial Management	3	0
EC 426	Personnel Management	0	3
EC 431	Labor Problems	3	or 3
EC 432	Industrial Relations	3	or 3
EC 504, 505*	Principles of Cost Accounting	3	3
EE 350	Electrical Applications in Wood Products	0	3
ENG 211*	Business Communications	3	or 3
FOR 372	Mensuration	3	0
FOR 422	Forest Products	3	0
FOR 431*	Dimension Stock Manufacturing	3	0
IE 322	Furniture Design and Construction	2	0
IE 332*	Motion and Time Study	0	4
IE 341	Furniture Plant Layout and Design	3	0
IE 408*	Production Control	3	0
PSY 337	Industrial Psychology I	3	or 3

VENEER AND PLYWOOD

CHE 543	Technology of Plastics	0	3
CH 215	Quantitative Analysis	4	or 4
CH 425, 426	Organic Chemistry	3	3
EC 401*	Principles of Accounting	3	0
EC 426	Personnel Management	0	3
EC 504*	Principles of Cost Accounting	3	0
EE 350*	Electrical Applications in Wood Products	3	0
FOR 422	Forest Products	3	0
FOR 431	Dimension Stock Manufacturing	3	0
FOR 432	Merchandising Forest Products	2	0
FOR 481	Pulping Processes and Products	2	0
FOR 513*	Tropical Woods	0	2
IE 332	Motion and Time Study	0	4
IE 408	Production Control	3	0
IE 430	Job Evaluation and Wage Administration	0	3
ME 304*	Fundamentals of Heat Power	3	0
PSY 337	Industrial Psychology I	3	or 3

RESEARCH AND DEVELOPMENT

BO 410	Plant Histology and Microtechnique	3	0
CHE 301, 302	Elements of Chemical Engineering	3	3
CHE 543	Technology of Plastics	0	3
CH 451	Introductory Biochemistry	3	0
CH 425, 426	Organic Chemistry	3	3
EE 350	Electrical Applications in Wood Products	0	3
FOR 422	Forest Products	3	0
FOR 481	Pulping Processes and Products	2	0
FOR 513	Tropical Woods	0	2
FOR 542	Fiber Analysis	0	2
MA 401	Differential Equations	3	0
ME 304	Fundamentals of Heat Power	3	0
ML	Modern Languages	3	3
PY 401, 402	Intermediate Physics I	4	4
ST 515, 516	Experimental Statistics for Engineers	3	3

CURRICULA

CURRICULUM IN PULP AND PAPER TECHNOLOGY

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FORESTRY

S	FOR 591	Forestry Problems—Mill Experience	Credits	
				3
3	CHE 301, 302	Elements of Chemical Engineering	3	3
	CH 425, 426	Organic Chemistry	3	3
	CH 531, 532	Physical Chemistry	3	3
	EE 350	Electrical Applications in Wood Products Manufacturing	0	3
	ENG 231	Basic Speaking Skills	3	0
	FOR 321, 322	Pulp and Paper Technology	3	3
	FOR 542	Fiber Analysis	0	2
	ME 304	Fundamentals of Heat Power	3	0
		Electives	2	2
			20	19
4	EC 201	Economics	3	0
	FOR 403	Paper Technology Laboratory	0	3
	FOR 411, 412	Pulp and Paper Mill Equipment	3	2
	FOR 413	Paper Testing Laboratory	2	0
	FOR 451	Paper Coloring Laboratory	2	0
	FOR 461	Paper Converting	1	0
	FOR 463	Plant Inspections	0	1
	FOR 471	Pulp Technology Laboratory	4	0
	FOR 482	Pulp and Paper Mill Management	0	2
	FOR 591	Research Problem	1	4
	TC 511	Chemistry of Fibers	0	2
		General Electives	3	2
		Social Science Elective	0	3
			19	19

WOOD PRODUCTS MERCHANDISING — — — — —

Professor R. M. CARTER, In Charge

CURRICULUM — — — — —

The distribution of lumber and other wood products and their proper utilization comprises the third curriculum of the wood technology-utilization branch of forestry. It is intended to fill the need for personnel trained both in business methods and in the basic characteristics and properties of the products and structures made out of wood. Methods of manufacturing, merchandising, business administration, preparation of plans and specifications and a knowledge of other building materials form an integral part of the curriculum.

An opportunity for student selection of courses to meet special interests is provided through 27 elective credits. At the beginning of the Junior year each student selects one of the three fields of specialization listed and chooses for many of his elective credits courses listed under this field.

This curriculum leads to the degree of Bachelor of Science in Wood Products Merchandising. A minimum of 158 credits is required for graduation.

--- OPPORTUNITIES

This curriculum trains men in light building construction, wood products manufacturing and merchandising for a wide variety of production and marketing positions with sawmills; retail and wholesale lumber yards, or brokerage firms; plywood and paper manufacturers; roofing felt, wall-board, flooring and furniture plants; and industries providing trade outlets for other wood products and associated materials.

--- CURRICULUM IN WOOD PRODUCTS MERCHANDISING

			Credits	
2	CE 217	Forestry Surveying	0	4
	EC 201	Economics	3	0
	ENG 231	Basic Speaking Skills	3	0
	FOR 201	Wood Structure and Properties I	3	0
	FOR 303	Wood Moisture Relations	0	3
	IE 224	Wood Working Equipment	0	3
	ME 101, 102	Engineering Graphics I, II	2	2
	PY 211, 212	General Physics	4	4
	MS 201, 202	Military Science		
	or			
	AS 221, 222	Air Science	2	2
	PE 201, 202	Physical Education	1	1
			<hr/>	<hr/>
			18	19

SUMMER CAMP

S*	FOR S204	Silviculture		2
	FOR S214	Dendrology		2
	FOR S224	Forest Mapping		2
	FOR S264	Protection and Utilization		2
	FOR S274	Mensuration		2
				<hr/>
				10

3	EC 202	Economics	3	0
	EC 315	Salesmanship	0	2
	EC 407	Business Law	0	3
	EC 411	Marketing Methods	3	0
	FOR 202	Wood Structure and Properties II	0	2
	FOR 423	Logging and Milling	3	0
	FOR 433	Gluing and Plywood	3	0
		English Elective	0	3
		Electives	6	8
				<hr/>
			18	18

			Credits	
4	EC 401, 402	Principles of Accounting	3	3
	EC 425	Industrial Management	3	0
	EC 426	Personnel Management	0	3
	FOR 401	Wood Preservation	0	2
	FOR 402	Foundations of Forest Management	2	0

FORESTRY

FOR 432	Merchandising Forest Products	2	0
FOR 441	Mechanical Properties of Wood	3	0
FOR 453	Lumber Structures	0	3
FOR 512	Forest Economics	3	0
	Electives	3	7
		<hr/> 19	<hr/> 18

* Students with comparable experience, upon faculty approval, may substitute one additional summer's work experience for Summer Camp. After completion of 12 weeks of plant experience and presentation of a satisfactory report, three hours of academic credit will be granted.

WOOD PRODUCTS MERCHANDISING, FIELDS OF SPECIALIZATION — — —

A student should select one of the following fields of specialization. Courses marked with an asterisk (*) are required. Technical electives should be scheduled from the remaining courses listed in the field of specialization.

BUILDING MATERIALS

			Credits
CE 351*	Details of Building Construction	2	0
CE 361*	Estimates and Costs I	3	0
EC 415*	Advertising	2 or 2	
EC 420	Corporation Finance	3	0
EC 432	Industrial Relations	3 or 3	
EC 501	Advanced Economic Theory	0	3
EE 350	Electrical Applications in Wood Products	0	3
ENG 332*	Argumentation and Persuasion	3	0
FOR 422	Forest Products	3	0

TECHNICAL SALES AND SERVICE

CHE 205	Chemical Process Principles I	0	4
CHE 543	Technology of Plastics	0	3
EC 412	Sales Management	0	3
EC 415*	Advertising	2 or 2	
EC 420	Corporation Finance	3	0
EC 521	Office Management	3 or 3	
EE 350	Electrical Applications in Wood Products	0	3
ENG 332*	Argumentation and Persuasion	3	0
FOR 422*	Forest Products	3	0
FOR 443	Wood Finishing	0	3
FOR 444	Introduction to Quality Control	3	0
FOR 481	Pulping Processes	2	0
MA 211, 212*	Analytic Geometry and Calculus B, C	3	3
ME 304	Fundamentals of Heat Power	3	0
ST 361	Introduction to Statistics for Engineers	3 or 3	

LUMBER AND PLYWOOD

EC 415*	Advertising	2 or 2	
EC 420	Corporation Finance	3	0
EC 432	Industrial Relations	3 or 3	
ENG 332*	Argumentation and Persuasion	3	0
FOR 422*	Forest Products	3	0
FOR 443	Wood Finishing	0	3
FOR 444*	Introduction to Quality Control	3	0
FOR 513*	Tropical Woods	0	2
ST 361*	Introduction to Statistics for Engineers	3 or 3	

SCHOOL OF GENERAL STUDIES

C. ADDISON HICKMAN, DEAN

INTRODUCTORY

When it became the Land-Grant College of North Carolina, State College inherited a long tradition of education, calling for furnishing maximum service to all the citizens of the state. Its progress from the first, therefore, embraced the finest technical training based on the most thorough research, coupled with the humane and social studies necessary in developing individuals of the highest character and civic responsibility. From the beginning, State College, like other Land-Grant colleges, has taken as its goal this two-fold function: training men of professional and technical leadership who are at the same time men of social leadership, whole men able to live as enlightened free citizens in our democratic state.

With the consolidation of the State College into the University of North Carolina in 1935, this double function was given further recognition. A Basic Division was formed which, without granting degrees in liberal arts, was to form a broad base on which all technical education was to be built. Specifically, the Basic Division was charged with instruction in the fields of humanities and social sciences, physical education and recreation, and was committed to provide the opportunities in general education necessary for a well-rounded program in all the technical fields pursued by State College students. In this, the Basic Division was in effect an integral part of all the technical schools, since it brought to bear on all students of all academic years the impact of instruction in the area of the humanities and social sciences to implement instruction in technical and professional subjects in the degree-granting Schools. That this instruction was deemed significant at State College is shown by the fact that the portion of curricular time devoted to these studies gradually increased until more than one-fourth of class instruction was done in the areas embraced by the Basic Division. Further recognition of the importance of the general education of technical students came with the action of the Board of Trustees in May, 1952, when the Basic Division was renamed the School of General Studies and placed on an equal basis with the technical schools of State College.

OBJECTIVES

The over-all objectives of the School of General Studies have become clear through the years. Its purposes are: to develop the student's communication and reading skills through the study of language and literature; to increase his understanding of the complex economic, social, political, and philosophical world in which he will live and work; to develop in him a sense of social responsibility as a scientist and technical leader in the world of technology and science; to teach him to think critically and scientifically in the social world of men as he does in the material world of his profession; to quicken his appreciation of the role played by both science and the arts in human affairs. Beyond the fundamental training in these fields as required by the technical curricula of the Schools, the School of General Studies also provides additional elective work in these areas so that each student may pursue further his own interests.

GENERAL STUDIES

ORGANIZATION — — — — —

The School of General Studies includes the Departments of Economics, English, History and Political Science, Modern Languages, Philosophy and Religion, Physical Education, Social Studies, and Sociology and Anthropology. The Dean and the department heads constitute the Administrative Board of the School of General Studies. This Board works with the School Faculty in matters of policy and instruction.

THE DEPARTMENT OF ECONOMICS — — — — —

Professor C. ADDISON HICKMAN, Acting Head of the Department

Professors R. O. MOEN, C. B. SHULENBERGER, T. W. WOOD.

Associate Professors E. A. FAILS, CLEON HARRELL, B. M. OLSEN

Assistant Professors CATHERINE W. ABRUZZI, A. J. BARTLEY, T. HARDIE

PARK, V. A. PIKNER, CHING-SHENG SHEN, O. G. THOMPSON

Lecturers D. R. DIXON, J. A. LYONS, HERBERT VON BECKERATH

Instructors ALISONE M. CLARKE, DELL B. JOHANNESSEN, N. E. PILAND

The Department of Economics seeks to help students understand the economic process, the nature and functioning of the economy and useful approaches to and methods of economic analysis. In pursuance of this end the department has a representative offering of courses in the major fields of economic theory, applied economics and business operation at both undergraduate and graduate levels. Several courses have been designed primarily for students working toward advanced degrees in the technical schools. Members of the department are also engaged in extension work and economic research.

THE DEPARTMENT OF ENGLISH — — — — —

Professor LODWICK HARTLEY, Head of the Department

Professors J. D. CLARK, A. M. FOUNTAIN, A. I. LADU, R. P. MARSHALL, J. W. SHIRLEY, R. G. WALSER

Associate Professors P. H. DAVIS, H. G. KINCHELOE, E. H. PAGET, D. J. RULFS, A. B. R. SHELLEY, J. SUBERMAN, L. H. SWAIN, R. B. WYNNE

Assistant Professors WILLIAM BARNHART, H. G. ELDRIDGE, JR., SADIE J. HARMON, B. G. KOONCE, JR., F. H. MOORE, L. R. WHICHARD, P. WILLIAMS, JR.

Instructors L. H. ANTONAKOS, J. H. GILBERT, R. W. GOLDSMITH, HAZEL GRIFFIN, MAX HALPEREN, A. S. KNOWLES, L. F. LADD, UMPHREY LEE, JR., C. W. MARTIN, MATTIE E. PARKER, JACK PORTER, N. G. SMITH, HULDA B. TURNER, MARILYN WILLIAMSON

The English Department has, as its primary objective, instruction in the basic communication skills: reading, writing, and speaking. To this end it offers a course in the fundamentals of composition which attempts to combine the three skills, plus special courses in business and technical communications and in speech. As an additional function, the department provides a core of humanistic studies consisting of courses in English, American and World literature. The principal objective of these courses is to make the student aware of his cultural heritage and to develop in him good habits of leisure reading.

THE DEPARTMENT OF HISTORY AND POLITICAL SCIENCE

Professor PRESTON W. EDSALL, *Head of the Department*

Professors S. NOBLIN, P. M. RICE

Associate Professors L. W. BARNHARDT, M. L. BROWN, JR., A. HOLTZMAN,
L. W. SEEGER

Assistant Professors B. F. BEERS, W. J. BLOCK, C. F. KOLB, L. F. REITZER

Instructor J. L. HELGUERA

An understanding of the historical background of our times and of political principles and governmental systems is expected of the educated man. This department, by giving specially designed courses, both elective and required, seeks to aid students in gaining this understanding. While most courses offered in history and political science are designed for undergraduates, the department offers a few graduate courses which may be built into the programs of students working for advanced degrees. It also cooperates with the College Extension Division in making selected courses available to adults who are not resident on the State College campus.

— — — — THE DEPARTMENT OF MODERN LANGUAGES

Professor Emeritus LAWRENCE E. HINKLE

Associate Professor GEORGE W. POLAND, *Head of the Department*

Associate Professor S. T. BALLENGER

Assistant Professors F. J. ALLRED, RUTH B. HALL, BERNARD S. MIKOFSKY

The Department of Modern Languages provides instruction in French, German, Spanish and Italian, as well as special instruction in English for foreign students. It also offers courses in the literature and culture of these language areas.

Courses in Russian are offered for graduate students only and, like the other language courses for graduate students, are directed solely toward achieving a reading knowledge.

The Department cooperates with graduate and research programs by offering special courses for graduate students in connection with language requirements for advanced degrees and by providing translation service. Graduate students enrolled in technical and scientific courses translate projects in their field of major interest. Upon satisfactory completion of these projects, they are accepted as evidence of reading ability in the particular language. The translations are then made available to interested individuals or agencies.

— — — — DEPARTMENT OF PHILOSOPHY AND RELIGION

Professor W. N. HICKS, *Head of the Department*

Associate Professors PAUL A. BREDENBERG, J. LEONARD MIDDLETON

Assistant Professors W. CURTIS FITZGERALD, JR., W. LAWRENCE HIGHFILL

The primary function of the Department of Philosophy and Religion is to provide basic and fundamental courses in philosophy and religion especially designed to serve students in the several professional schools of the college—courses that are fundamental in the sense that the utility of critical analysis and the nature of faith are stressed and related to student experience. Since in matters religious and philosophical no universally acceptable final answers have been achieved, it is imperative that able and systematic and free examination of creedal beliefs and metaphysical assumptions in all areas be vigorously and unceasingly continued. Only in

GENERAL STUDIES

this way can faith be kept vital, rigid provincialism thwarted and the significant intellectual achievements of the past and present conserved and advanced.

Personal challenge is extended to each student in all of the courses offered by the Department to live more fully in all of his relationships in terms of the high motives of love and reason, and to seek ultimate adjustment, not in passive conformity, but in duty freely accepted and unique creativity dared.

THE DEPARTMENT OF PHYSICAL EDUCATION — — — —

Professor PAUL H. DERR, *Head of the Department*

Professor Emeritus JOHN F. MILLER

Associate Professor WILLIAM E. SMITH

Assistant Professors J. B. EDWARDS, JR., HAROLD KEATING, JOHN F. KENFIELD, JR.

Instructors J. L. CLEMENTS, N. E. COOPER, H. O. FLOYD, JR., A. M. HOCH, W. R. LEONHARDT, J. H. LITTLE, FRANK J. MURRAY, W. M. SHEA, W. H. SONNER

The purpose of the Department of Physical Education is to make a maximum contribution to the general welfare of the student by providing programs and conditions in which he may develop and maintain physical strength and stamina, relax tensions, acquire an appreciation for the importance of healthful living and develop knowledge and skills for recreation. The programs also provide situations in which the student may develop qualities of cooperation, leadership and social poise.

To achieve these aims, the department serves two functions: it provides instruction and supervision for the participant in physical education in regular classes; and it offers opportunities for all students to participate in beneficial forms of physical exercise through the program in intramural athletics, which is administered by the department.

THE DEPARTMENT OF SOCIAL STUDIES — — — —

Professor GEORGE A. GULLETTE, *Head of the Department*

Professors C. I. FOSTER, A. K. F. MCKEAN

Associate Professors E. M. HALLIDAY, J. R. LAMBERT, JR

Assistant Professors R. N. ELLIOTT, ROBERT S. METZGER

Instructors J. L. COLE, W. F. EDWARDS, R. W. HUERTLEY

The Department of Social Studies draws its staff from the various fields of the humanities and the social sciences. It contributes to the training of men whose professional competence is devoted to the public interest by offering courses especially designed to emphasize the close interconnections that bind liberal studies to the world of science and technology.

THE DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY — — — —

Professor SANFORD R. WINSTON, *Head of the Department*

Associate Professors E. H. JOHNSON, H. D. RAWLS

Assistant Professor HERBERT COLLINS

Instructors J. L. COLE, W. F. EDWARDS, R. W. HUERTLEY

Courses offered by the department fall into three overlapping areas: (1) courses concerned with the general education of the student; (2) supporting courses in those curricula in which a knowledge of society and

human behavior is deemed essential; and (3) courses given in conjunction with other departments which help prepare the student for rather specific types of professional activity upon graduation.

The general objective of courses in the department is to encourage the student as a citizen and as a professional person to see himself as a part of his society. It is believed that the student must understand something of the characteristics and functioning group behavior within the urban-industrial milieu of western civilization. He is shown that the human being operates within a social world which is the result of long cultural development, and he is encouraged to see his relationship within the framework of society with the result that he conceives of his behavior as a part of a larger social framework. The importance of adjustment to life is emphasized in all classroom teaching as well as in conferences on individual problems.

SCHOOL OF TEXTILES

MALCOLM E. CAMPBELL, DEAN

EDWARD A. MURRAY, DIRECTOR OF INSTRUCTION

INTRODUCTORY

Food, clothing and shelter are recognized as the three basic needs of man, and as a corollary of this fact the manufacture of textiles has become one of the world's leading industries. From early beginnings as an occupation governed by tradition and rule of thumb the textile industry has advanced to a highly complex, technical stage. North Carolina has risen steadily with the growth of textiles until it now ranks first in the nation in terms of employment and manufactured products. There are at present more than 900 textile plants located throughout the state producing a variety of commodities ranging from coarse cotton yarns and fabrics to the finest of laces and wearing apparel, from experimental synthetic fibers to finished fabrics woven of these man-made yarns. The current trend indicates that constant research and the application of its results are continuing to attract more manufacturers to the state along with even more diversified phases of the textile industry.

Because of the tremendous expansion in the scope of textiles it has become necessary to utilize the talents of the chemist, the physicist, the engineer, the businessman, as well as the traditional weaver, spinner and dyer. The field of textiles, although as old as man himself, has all the vigor

TEXTILES

of a young industry; and because it encompasses such a diversity of activity, offers limitless opportunity to a man whatever his specific interest may be.

The School of Textiles offers technical instruction, both undergraduate and graduate, in the applied sciences underlying the production and finishing of textile products. Textile research, which is an important function in its operation, supplements and supports graduate study through applied and fundamental investigations.

The purpose of the School is fourfold: to educate men and women for professional service in all phases of the textile industry; to develop their capacities for intelligent leadership; to aid in the economic development of the textile industry; and to cooperate with the textile industry in improving, through scientific research, manufacturing efficiency and the quality and value of manufactured products.

For Administration, the School of Textiles is organized into five departments:

<i>Professor E. B. GROVER</i>	FIBER AND YARN TECHNOLOGY
<i>Professor W. E. SHINN</i>	KNITTING TECHNOLOGY
<i>Professor B. L. WHITTIER</i>	FABRIC DEVELOPMENT
<i>Professor H. A. RUTHERFORD</i>	TEXTILE CHEMISTRY
<i>Professor W. A. NEWELL</i>	TEXTILE RESEARCH

Curricula

Two four-year curricula, Textile Technology and Textile Chemistry, are offered. The freshman program is identical in each. Seven options in the Textile Technology curriculum enable a student to specialize in some particular phase of textiles. Each option includes 20 semester credits in related courses. The options, which are listed on page 159, are: General Textile Technology, Textile Management, Yarn Manufacture, Weaving and Designing, Knitting, Synthetics, Quality Control.

Selected courses leading to the degree of Bachelor of Science in Textiles are offered to graduates of universities and standard colleges. These are arranged in accordance with the professional aim of the student and the credits presented. If the student presents enough acceptable credits for courses required in a curriculum, he may be graduated with a Bachelor of Science degree in Textiles in one year. It should take no more than two years plus one or two summer schools to complete work for a degree.

A minimum of 160 semester credit hours is required for graduation.

Degrees

Upon the completion of any of the options in Textile Technology, the degree of Bachelor of Science in Textiles is conferred. Upon the completion of the curriculum in Textile Chemistry, the degree of Bachelor of Science in Textile Chemistry is conferred.

The degree of Master of Science in Textiles or of Master of Science in Textile Chemistry is offered for the satisfactory completion of one year of graduate study in residence. Candidates for the degree of Master of Science enter and are enrolled in the Graduate School of the College. For general requirements, consult The Graduate School Catalog.

FACILITIES

The Textile Building, erected in 1939 and greatly enlarged in 1950, was designed to harmonize teaching and laboratory facilities. It houses one of the most modern and best-equipped textile institutions in the world.

OPPORTUNITIES

Technological advances in textile fibers and manufacturing techniques have created a tremendous demand for men technically trained in textile colleges. For the past several years, the School of Textiles has had a demand for graduates greater than it could supply. Its graduates have entered the textile industry at salaries equal to or better than those offered in many other industries.

Graduates of the School are equipped to enter many fields related to textiles, such as manufacturing, sales or research; and alumni of the School hold responsible positions in each of these fields. Many are now mill presidents or general managers.

Some of the specific fields available are: production of yarns, production of woven and knitted fabrics, dyeing and finishing, industrial engineering, quality control, designing, styling, merchandising, converting, research, cost and production control sales of equipment and materials to the textile industry.

To assist in the placement of students and alumni and to facilitate interviews by textile firms, the School maintains a full-time Placement Director.

INSPECTION TRIPS

For certain of the textile courses offered, it is deemed advantageous for the student to see the manufacturing process under actual operating conditions. Therefore, when possible, trips are arranged for student groups to visit outstanding manufacturing plants. When so arranged, such trips are compulsory; transportation costs and other travel expenses, while held to a minimum insofar as possible, must be paid by the student.

SHORT COURSES

It is the policy of the School to offer short course training for textile mill men who have a limited amount of time to spend at the School. These courses can be offered when a demand for them exists. The subject matter is selected to meet the needs of the group.

EXTENSION COURSES

The staff of the School cooperates with the Extension Division of the College in offering textile courses by correspondence to employees of textile mills who wish to engage in this type of study. Applications for enrollment in these courses should be mailed direct to Edward W. Ruggles, Director, College Extension Division, State College Station, Raleigh, North Carolina.

FIBER AND YARN TECHNOLOGY

Professor ELLIOT B. GROVER, *Head of the Department*

Professor D. S. HAMBY

Associate Professors J. E. PARDUE, J. A. PORTER

Assistant Professor W. C. STUCKEY, JR.

Instructors BARBARA S. GAST, JAMES A. KING, L. T. LASSITER, R. E. WIGGINS

OBJECTIVES

The purpose of this Department is to instruct in the theory and practice of producing yarns; to conduct experimental processing in the utilization of cotton, wool, and the various synthetic fibers, and combinations of these; to study the engineering aspects of the machinery involved; and to cooperate with mills in solving manufacturing problems through research and experimentation.

FACILITIES

OPENING AND PICKING

The opening and picking equipment, located in a separate humidified laboratory, consists of two lines of equipment: a completely coordinated line consisting of blending feeders, openers and a one-process picker, arranged to allow full scale production with by-passes provided for man-made staple fibers and experimental work; and individual finisher picker for processing samples.

TEXTILES

CARDING SECTION

A laboratory equipped for carding, combing, drawing and related processes is located in one large humidified laboratory. The machinery consists of different types of cards, regular and controlled draft drawing, and combing machinery suitable for processing a wide range of materials from carded cotton to synthetics and wool on the cotton system.

ROVING SECTION

A complete group of roving frames, including conventional as well as controlled or long draft types is located in another laboratory.

YARN SECTION

The yarn section laboratory contains equipment for spinning, twisting and winding. In order to conserve room and to have as many types of equipment as possible, the machinery in this section has been built in shorter-than-standard lengths, but it is complete in every other respect. Practically all industrial types of drafting are represented, both in demonstration units and operating equipment. Sample installations are available of overhead cleaning, Pneumafil, roll buffing, different types of spindles and of many other modern developments. Included in the department also are several types of twisters and many of the standard types of winders to wind skeins, cones, dye packages, or tubes.

RESEARCH LABORATORIES

Three separate laboratories for applied research in fiber processing are located in the yarn department. These are described in the section under **Physical Testing Laboratories**.

CONTINUOUS FILAMENT LABORATORY

A laboratory completely equipped for the processing of continuous filament synthetic yarns from soaking through winding is enclosed in another separate humidified room. This laboratory has the complete range of equipment necessary for the processing of crepe, voile and hosiery yarn and includes: soaking tub, extractor, dryer, twist-setting oven, spooler, up-stroke twisters, double twister, quill winder, cone winders, and nylon sizing machine, plus supplementary equipment.

WOOL SECTION

An entirely new laboratory has been set up for the processing of wool and long-staple synthetic fibers and blends. Included in the equipment is a Davis and Furber Wool Unit, complete from machinery to handle blending through the warping of the spun yarn. Another set of machinery in this laboratory is designed to process the longer staple natural and synthetic fibers on the American worsted system. Several tow-to-top machines, including a Pacific Converter and a Turbo-Stapler, are installed in this laboratory. Rectilinear combs and intersecting gills have also been provided.

PHYSICAL TESTING LABORATORIES

There are three separate air-conditioned laboratories, one of which is used for teaching and undergraduate student work and another for industrial research and graduate student research. The third laboratory, which has a separate air-conditioning unit, is used for fundamental and applied research where it is necessary to have atmospheric conditions varying from the standard.

The laboratories are equipped for the physical testing of fibers, yarns and fabrics. Included in the laboratory equipment are the following: a complete range of fiber testing equipment, three Instron Testers, several torsion and other types of balances, several combination skein and fabric breaking machines, inclined plane testers, single strand pendulum testers, Moscrop multiple single strand testers, bursting strength testers, drying ovens, abrasion machines, twist testers, densometers, hydrostatic pressure

tester, automatic reels, permeability testers, evenness testers and many other types of laboratory equipment, including both commercial and special instruments developed at the school.

MICROSCOPY

Excellent facilities are available for work in textile microscopy. The laboratory contains the most modern instruments including microscopes, cross sectioning devices and equipment for photomicrography. In addition to the ordinary monocular microscope, binocular and polarizing types are available. The dark room contains everything needed for photographic work.

The option in Yarn Manufacture is listed with the other options.

KNITTING TECHNOLOGY

Professor WILLIAM E. SHINN, Head of the Department

Associate Professor J. G. LEWIS

Assistant Professor H. M. MIDDLETON, JR.

OBJECTIVES

In recognition of the great importance of knitting and the other needle arts in the industrial life of this section, a Department of Knitting has been set up with the objective of making available to this branch of the textile industry personnel trained in the fundamentals and practices underlying the production of knitted textiles.

FACILITIES

The laboratories of the Knitting Technology Department, organized and equipped for instruction in many phases of the knit-goods industry, are grouped as follows:

SEAMLESS HOSIERY

Equipment for instruction in seamless hosiery production includes representative types of machines arranged in two groups. The more elementary types, including ribbers and plain hosiery machines with the elementary attachments such as stripers, reverse plating and rubber top attachments, are arranged together for beginning students. The more advanced types are grouped together for advanced students. This line includes advanced rib type machines, Komets, Banner Wrap Reverse, several types of float stitch machines, and machines for the manufacture of hosiery with ornamental wrap patterns.

NYLON HOSIERY

This section is equipped with three full-fashioned hosiery knitting machines of modern types, in 45-gauge, 51-gauge, and 54-gauge respectively. There is provided also a 400-needle women's nylon hosiery machine of the circular type. This equipment forms the basis for instruction in the general course in hosiery manufacture and for the more advanced instruction in full fashioned hosiery production. Equipment for the looping and seaming of hosiery, for preboarding, dyeing and finishing of fine hosiery is provided in separate rooms.

CIRCULAR KNITWEAR

A wide assortment of large diameter fabric knitting machines is provided for demonstration and instruction in the production of cloth for both underwear and outerwear. This group includes both latch needle and spring needle types for jersey, rib, interlock and Jacquard fabric.

GARMENT CUTTING AND SEAMING

A laboratory for experimental garment design and manufacture has been set up with modern power cutting equipment and many types of industrial sewing machines for producing garments for both outerwear and underwear. This unit is supplemented by knit goods finishing equipment located in the hosiery and knitwear finishing laboratory.

TEXTILES

WARP KNITTING, FLAT KNITTING

The knitting department laboratories include five warp knitting machines of the tricot and raschel types. These machines furnish the basis for instruction in the design, analysis, and production of a wide range of warp knitted fabrics. A collection of fabrics and several winding and warp preparation machines make it possible to process a wide variety of materials. Flat machines of the V-bed and links-and-links type are employed for instruction in the production of heavier knitwear such as sweaters.

KNIT GOODS FINISHING

Devoted entirely to experimental work in hosiery and knit goods finishing, this laboratory contains modern equipment for pre-boarding, dyeing and finishing machinery, a knit goods calender for finishing knitted tubing, a fabric brush and an experimental warp sizing machine for the preparation of warp yarns for tricot knitting.

The option in Knitting Technology is listed with other options.

FABRIC DEVELOPMENT — — — — —

Professor BENJAMIN L. WHITTIER, Head of the Department

Associate Professors J. B. GAITHER, W. E. MOSER

Assistant Professors E. B. BERRY, J. W. KLIBBE

OBJECTIVES — — — — —

The purpose of this Department is to instruct students in the theory and practice of weaving and designing fabrics ranging from simple print cloths and elaborate leno and jacquard creations; to cooperate with the home economics departments of North Carolina colleges in creating consumer interest in textile products; to cooperate with mills in solving manufacturing problems through research and experimentation.

FACILITIES — — — — —

WEAVING LABORATORIES

These laboratories contain a larger variety of looms than can be found in a textile mill, carefully selected so that the student may obtain knowledge of the different looms made in the United States. On this equipment are produced all types of fabrics, including print cloths, denims, sateens, ginghams, fancy shirting, dobby weave dress and drapery materials, pile, leno and jacquard fabrics, woven from natural and synthetic fibers. The weave room is completely humidified.

WARP PREPARATION

The equipment for preparing yarn for weaving is located in a separate department. This equipment includes a modern high speed warper and a rayon type slasher as well as auxiliary equipment such as skein, cone and filling winders. There is also a silk type combination warper and beamer used for making short warps for student instruction. There is a separate room for drawing in warps.

DESIGNING AND FABRIC ANALYSIS

Full design board equipment for both single and double cloths is provided in the classrooms. In addition to dies for cutting samples, different makes of balances and microscopes are provided for the analysis of fabrics. Other designing equipment includes an enlarging camera, mechanical design translators and card lacing equipment.

CLOTH INSPECTION

Separate facilities are provided where students can learn the technique of grading woven materials, using completely modern inspection equipment. The option in Weaving and Designing is listed with the other options.

TEXTILE CHEMISTRY

Professor HENRY A. RUTHERFORD, Head of the Department

Professor K. S. CAMPBELL

Associate Professor A. C. HAYES

OBJECTIVES

The purpose of this Department is to instruct students in the chemistry of natural and synthetic fibers, and in the theory and practice of scouring, bleaching, dyeing, finishing and printing of yarns and fabrics; to conduct laboratory experimental work demonstrating the principles set forth in lecture periods; to cooperate with the mills of the state in solving problems relating to the wet processing of textile materials.

CURRICULUM

The curriculum in Textile Chemistry is listed with the other Textile curricula. Changes in the requirements for students selecting this curriculum may be anticipated from time to time in order that the academic training may be kept abreast of modern developments in the application of chemistry to textile materials.

FACILITIES

DYEING LABORATORY

This is a complete laboratory, modern in every respect, with generous provision for bench space, equipment storage facilities, utilities and steam baths. It is used for all laboratory work dealing with chemical properties of textiles, dye synthesis, color matching and all types of dyeing.

DYE HOUSE

In this room is assembled one of the finest groups of dyeing and finishing machinery for instructional and experimental purposes in existence anywhere. Obtained over the last three or four years at a cost of over \$150,000, the equipment includes a singeing machine, a continuous dyeing range of the pad-steam type, a Williams unit, a du Pont-type continuous bleaching unit, four package dyeing machines, a dye beck, dye jig, rotary hosiery dyeing machine, piece goods dyeing and finishing units utilizing dry cans, enclosed tenter frame and a continuous loop drying and curing unit supplied with both steam and gas-fired heat sources.

RESEARCH AND TEXTILE CHEMICAL ANALYSIS

Two laboratories equipped for chemical research on fibers and on textile chemical specialties are available for use by advanced undergraduate students working on special problems and for research. Equipment includes a reflectometer, a spectrophotometer with all supplementary apparatus, colorimeters and the common testing equipment used for evaluation and for determining color-fastness, washfastness, etc., of dyed fibers and fabrics.

TEXTILE RESEARCH

Professor WILLIAM ANDREWS NEWELL, Research Coordinator

Professor J. F. BOGDAN, Director of Processing Research

Professor H. A. RUTHERFORD, Director, Chemical Research

Professor D. M. CATES, Assistant Director, Chemical Research

OBJECTIVES

Through financial assistance extended by the North Carolina Textile Foundation, a program of research has been initiated that is far-reaching in its influence on the operations and development of the textile industry

TEXTILES

in North Carolina and in the nation.

The scope of this research embraces applied and fundamental investigations in the fields of fiber, yarns, fabrics, textile chemistry, fabrication, machinery.

Research is carried out by a full-time research staff, trained in the physical sciences, with the assistance of department heads and the members of the teaching staff.

FACILITIES

Equipment for processing and chemical research is available in eight laboratories, four of which are devoted entirely to research. In addition, equipment used for instruction can also be employed if needed. Complete spinning units are available for manufacture of yarns on the cotton, woolen and worsted systems.

The research department also carries out the training of students on both undergraduate and graduate levels by providing direct participation in the instructional program and by furnishing part-time employment to these students.

SYNTHETIC FIBERS DIVISION

OBJECTIVES

The purpose of this Division is to acquaint students with the various types of synthetic yarns and to instruct in the basic properties, handling methods and conversion into representative end products of each. The Division acts in conjunction with the Knitting, Technology, Fiber and Yarn Technology, Fabric Development, Textile Chemistry and Research Departments of the School of Textiles to provide a broad groundwork in synthetic yarn fundamentals.

FACILITIES

Laboratories are coordinated with and are a part of the laboratories of the Departments of Fiber and Yarn Technology, Fabric Development and Knitting Technology.

The option in Synthetics is listed with the other options.

MACHINE DESIGN AND DEVELOPMENT

C. M. ASBILL, JR., *Head of Department*

OBJECTIVES

The purposes of this department are:

To develop new types of textile machinery and to improve existing types.

To keep abreast of modern developments in machines and testing equipment by a digest of patents and technical articles in the various textile publications, as well as by close contacts with mills and machine manufacturers.

To furnish engineering assistance and advice relating to patents to individuals and organizations interested in the design or development of textile machines or related apparatus.

To place within reach of and at the disposal of interested students and the teaching and research staff of the School of Textiles the facilities of a qualified textile engineering department with means for the construction and testing of new and improved equipment.

FACILITIES

The facilities consist of design and drafting equipment together with a completely equipped machine shop for the production of both large production machines and smaller and more delicate testing apparatus.

The establishment of this Department within the School of Textiles was made possible by the financial assistance of the North Carolina Textile Foundation. Its functions extend to all phases of textile manufacturing and processing, including both the mechanical and electrical fields.

TEXTILE LIBRARY

KATHERINE MCDIARMID, *Librarian*

As a result of a substantial gift by the Burlington Mills Corporation, the Textile Library was relocated in the Textile Building in 1951. The new, enlarged quarters were designed to incorporate the latest functional improvements.

The library was organized in 1944; in 1945 the entire textile collection from the D. H. Hill Library was added to it. There are now about 7,000 volumes, of which 2,000 are bound periodicals. The library subscribes to 150 current periodicals, both American and foreign, which are thoroughly indexed in Industrial Arts Index, Chemical Abstracts, Natural and Synthetic Fibers and Textile Technology Digest.

In addition to books and periodicals, the librarian and student assistants maintain files of pamphlets, reprints, trade catalogs and patents. Special card indexes have been prepared for these collections.

The holdings of the Textile Library are available on loan not only to students and faculty of the College but also to research workers and industry employees throughout North Carolina.

CONSULTING SERVICE

GEORGE H. DUNLAP, *Textile Consultant*

In recognition of the need for close contact with the textile mills this division was organized with the assistance of the North Carolina Textile Foundation. It is the function of the Textile Consultant to visit as many mills as possible during the year, to discuss with executives their technical problems and assist in their solution. In many cases this involves experimental work which may be conducted in the mill or brought to the School for consultation with the staff or for special work in the laboratories.

The Textile Consultant frequently cooperates with the officials of trade associations in planning and arranging programs and represents the School at these meetings.

TEXTILE PLACEMENT BUREAU

GEORGE H. DUNLAP, *Director*

The Placement Bureau is a clearing house for students in the graduating class and for textile alumni. It is a coordinating agency for the employer and the graduates of the School of Textiles. The Placement Bureau tries to keep an accurate file of all textile alumni and the progress they have made. Therefore, all alumni are requested to notify the Director when they receive a promotion or transfer from one organization to another.

SPONSORED PROFESSORSHIPS

The School of Textiles has four sponsored professorships. These are made possible by funds contributed to the North Carolina Textile Foundation, Inc., and especially designated to pay a part of the annual salary of the Professor selected to fill the position.

The four professorships, together with the year of establishment and the name of the incumbent for each, are as follows;

TEXTILES

Burlington Industries Professorship of Textiles 1946.

DAME S. HAMBY, *Professor of Textiles, Department of Fiber and Yarn Technology*

Edgar and Emily Hesslein Professorship of Fabric Development 1948.

BENJAMIN LINCOLN WHITTIER, *Professor of Textiles and Head, Department of Fabric Department.*

Chester H. Roth Professorship of Knitting Technology 1948.

WILLIAM EDWARD SHINN, *Professor of Textiles and Head, Department of Knitting Technology.*

Abel C. Lineberger Professorship of Yarn Manufacturing 1948.

ELLIOTT BROWN GROVER, *Professor of Textiles and Head, Department of Fiber and Yarn Technology.*

CURRICULUM IN TEXTILE TECHNOLOGY — — — — —

FOR ALL TEXTILE STUDENTS

			Credits	
1	CH 101	General Inorganic Chemistry	4	0
	CH 103	General and Qualitative Chemistry	0	4
	ENG 111, 112	Composition	3	3
	MA 111	Algebra and Trigonometry	4	0
	MA 112	Analytical Geometry and Calculus A	0	4
	ME 101	Engineering Graphics	2	0
	PS 201	The American Governmental System	0	3
	TX 101	Yarn Principles	2	0
	TX 151	Fabric Principles	0	2
	MS 101, 102	Military Science I or		
	or*			
	AS 121, 122	Air Science I	2	2
	PE 101, 102	Physical Education*	1	1
			18	19

FOR ALL EXCEPT TEXTILE CHEMISTRY STUDENTS

2	EC 201, 202	Economics	3	3
	HI 252	The United States Since 1865	3	0
	PY 211, 212	General Physics	4	4
	TX 201	Yarn Manufacture II	4	0
	TX 241	Knitting I	0	3
	TX 251	Cam Weaving	3	0
	TX 261	Fabric Structure	0	3
	TX 281	Fiber Quality	0	3
	TC 201	Textile Chemistry I	0	2
	MS 201, 202	Military Science II or		
	or*			
	AS 221, 222	Air Science II	2	2
	PE 201, 202	Physical Education*	1	1
			20	21

3	EC 401, 402	Principles of Accounting or		
	PSY 200, 337	Introduction to Psychology;		
		Industrial Psychology I or		
	MA 211, 212	Analytic Geometry and Calculus B, C	3	3
	TC 301, 302	Textile Chemistry II	3	3
		English**	3	3
	TX 301	Yarn Manufacture III	0	4
	TX 323	Textile Testing II	3	0

TEXTILES

TX 341	Hosiery Manufacture	2	0
TX 351	Dobby Weaving	3	0
TX 361	Dobby Design	0	3
	Electives	4	4
		<hr/>	<hr/>
		21	20

4	EC 425	Industrial Management	3	0
	EC 426	Personnel Management	0	3
	TX 483	Textile Cost Methods***	2	0
	TX 484	Mill Organization	0	3
	TX 581	Instrumentation and Control	3	0
	TX 425	Textile Microscopy	0	1
		Selected Option:		
		(20 credits in General Textiles, Textile Management, Yarn Manufacturing, Weaving and Designing, Knitting Technology, Synthetics or Quality Control) See Options	10	10
		Electives	3	3
			<hr/>	<hr/>
			21	20

* Students excused from Military or Air Science and/or Physical Education will schedule equivalent credits in courses from the following departments: Economics, English, History and Political Science, Modern Languages, Philosophy and Religion, Psychology, Rural Sociology, Social Studies, or Sociology.

** If approved in advance by the Director of Instruction, students who average C or above on Composition, Eng. 111, 112, may substitute 6 credits of Modern Language.

*** Students in Management Option will substitute an approved textile course.

OPTIONS

GENERAL TEXTILES OPTION

TX 401	Yarn Manufacture IV	4	0
TX 411	Wool Manufacture	0	3
TX 431	Synthetics I	2	0
TX 451	Weaving Laboratory	1	0
TX 461	Design IV	3	0
TX 472	Fabric Analytics	0	2
	Textile Courses****	0	5
		<hr/>	<hr/>
		10	10

TEXTILE MANAGEMENT

EC 411, 412	Marketing Methods and Sales Management	3	3
EC 504, 505	Principles of Cost Accounting	3	3
	Textile Courses****	4	4
		<hr/>	<hr/>
		10	10

YARN MANUFACTURE

TX 401	Yarn Manufacture IV	4	0
TX 402	Mill Technology	0	3
TX 411	Wool Manufacture I	0	3
TX 431	Synthetics I	2	0
TX 435	Synthetic Fiber Processing	0	4
	Textile Courses****	4	0
		<hr/>	<hr/>
		10	10

**** MA 211, 212 may be substituted for elective courses,

TEXTILES

WEAVING AND DESIGNING

		Credits	
TX 431	Synthetics I	2	0
TX 451	Weaving Laboratory	1	0
TX 452	Weaving Technology	0	2
TX 461	Design IV	3	0
TX 472	Fabric Analytics	2	0
TX 561	Special Weave Formations	0	2
TX 562	Jacquard Design and Weaving	0	3
	Textile Courses****	2	3
		<hr/>	<hr/>
		10	10

KNITTING TECHNOLOGY OPTION

TX 343	Knitted Fabric Design and Analysis	2	0
TX 441	Flat Knitting	3	0
TX 443	Knitting Mechanics	3	0
TX 444	Garment Manufacture	0	3
TX 445	Full Fashioned Hosiery Manufacture	0	2
TX 447, 448	Knitting Laboratory II	2	2
TX 449	Tricot Knitting	0	3
		<hr/>	<hr/>
		10	10

SYNTHETICS OPTION

TX 402	Mill Technology	0	3
TX 433	Synthetics II	4	0
TX 435	Synthetic Fiber Processing	0	4
TX 476	Synthetics III	0	3
TC 421	Fabric Finishing I	2	0
	Textile Courses****	4	0
		<hr/>	<hr/>
		10	10

QUALITY CONTROL OPTION

ST 361	Introduction to Statistics for Engineers	3	0
TX 424	Development Project	0	2
TX 521	Testing and Quality Control	4	0
TX 522	Textile Testing III	0	4
	Textile Courses****	3	4
		<hr/>	<hr/>
		10	10

**** MA 211, 212 may be substituted for elective courses.

CURRICULUM IN TEXTILE CHEMISTRY — — — — —

The freshman year is the same as for the Textile Curriculum

		Credits	
2	CH 211, 212	4	4
	HI 252	3	0
	MA 211, 212	3	3
	PY 211, 212	4	4
		0	3
	TX 261	0	3
	TX 284	3	0
	MS 201, 202*		
	or		
	AS 221, 222	2	2
	PE 201, 202	1	1
		<hr/>	<hr/>
		20	20

			Credits	
3	CH 421, 422	Organic Chemistry	5	5
	EC 201, 202	General Economics	3	3
		English Elective	0	3
	TC 303, 304	Textile Chemistry III	4	4
	TX 321	Textile Testing I	3	0
	TX 425	Textile Microscopy	0	1
		Electives	3	3
			<hr/> 18	<hr/> 19
4	EC 425	Industrial Management	3	0
	EC 426	Personnel Management	0	3
	TC 403, 404	Textile Chemistry IV	4	4
	TC 423	Fabric Finishing II	3	0
	TC 431	Textile Printing	0	3
	TC 511, 512	Chemistry of Fibers	2	2
	TX 581	Instrumentation and Control	3	0
		Physical Science, Mathematics or		
		Textile Courses	3	3
		Electives	3	3
			<hr/> 21	<hr/> 18

* Students excused from Military or Air Science and/or Physical Education will schedule equivalent credits in courses from the following departments: Economics, English, History and Political Science, Modern Languages, Philosophy and Religion, Psychology, Rural Sociology, Social Studies, or Sociology.

THE GRADUATE SCHOOL NORTH CAROLINA STATE COLLEGE

WILLIAM M. WHYBURN, *Vice-President, Graduate Studies and Research, Chapel Hill*

JAMES S. BETHEL, *Acting Dean, Raleigh*

The Graduate School of the Consolidated University of North Carolina is composed of three divisions, one at each of the three units of the University System. Each unit is administered by a Graduate Dean and an Administrative Board representing the various degree-granting areas in each institution. The Vice-President for Graduate Studies and Research is the administrative officer of the Consolidated University who has responsibility for the development of policy in all graduate programs and for the coordination of the activities of the graduate schools at each of the three units of the University System.

At State College, graduate instruction is offered in the fields of Agriculture, Engineering, Forestry, Technological Education and Textiles. The degree of Master of Science is offered in each of these areas. The Professional Master's Degree also offered in some of these fields is intended for students who are interested in the more advanced applications of fundamental principles to specialized fields rather than in the acquisition of

COLLEGE EXTENSION

the broader background in advanced scientific studies which would fit them for careers in research.

The degree of Doctor of Philosophy is offered in the following fields of study:

Agricultural Economics

Agricultural Engineering

Animal Industry

Botany (in the fields of physiology and ecology)

Ceramic Engineering

Chemical Engineering

Civil Engineering

Electrical Engineering

Engineering Physics

Entomology

Experimental Statistics

Field Crops

Forestry

Genetics

Nuclear Engineering

Plant Pathology

Rural Sociology

Soils

Zoology (in the fields of ecology and wildlife management)

Students interested in graduate study should consult the Graduate School catalog. A copy will be sent upon request. Inquiries should be addressed to:

Dean, GRADUATE SCHOOL, North Carolina State College, Raleigh, North Carolina.

COLLEGE EXTENSION DIVISION — — — — —

EDWARD W. RUGGLES, *Director*

OBJECTIVES — — — — —

The College Extension Division is organized to carry the practical and cultural advantages of college studies to persons who cannot attend classes on the campus, and to groups and communities which may profit by the services offered.

SERVICES — — — — —

Extension courses are organized where at least fifteen persons are interested and are willing to take up the same subject. In setting up the courses, such matters as distance from the college, nature of the subject, and availability of instructors must be taken into consideration.

Correspondence courses for college credit are offered in agriculture, architecture, economics, education, engineering, English, geology, history, political science, mathematics, modern languages, psychology, rural sociology, sociology, statistics and textiles. This listing of more than 75 courses continues to grow.

The Correspondence Bureau has also set up a program of four high school courses—English review, review of elementary algebra, solid geometry and plane geometry. The purpose of these non-credit courses is to give high school graduates an opportunity to fulfill the college entrance requirements and also to assist those who make low scores on their entrance examinations.

Another course, Building and Estimating, is offered through the Correspondence Bureau but does not carry college credit. It is designed to stress practical application of the subject matter. Other correspondence courses may be taken for professional credit rather than college credit.

The night class program is another Extension Division service. Each fall and each spring, a series of credit, hobby and vocational classes is presented on the college campus for residents of the Raleigh area. Similar courses are also taken to various communities where the demand is sufficiently great and others are conducted at military bases in the State.

A new night program has been added. The Extension Division conducts a series of classes in sub-freshman mathematics on the college campus.

A wide variety of short courses and conferences is planned each year by the Extension Division in cooperation with several Schools at State College.

Some of these specialized courses, increasing in popularity, include those for electrical meter engineers, veterinarians, surveyors, apple and peach growers, gas plant operators, dry kiln operators, sawmill operators, seedsmen, pest control operators, clay plant operators, nurserymen, freezer plant operators, cemetery superintendents, artificial breeders, farm managers and many others.

Among the others offered annually are the beef cattle conference, dairy-men's conference, statistical quality control, furniture finishing, grain marketing, farm and small business income tax, sport fishing, water works school, industrial waste conference, swine conference, personnel testing institute, industrial management, industrial safety, motion and time study, job evaluation, introduction to quality control, industrial relations, pesticide school, cotton classing, lumber grading, parks and recreation workshop, aerial photo interpretation, commercial flower growers, linear programming, warm air heating and air conditioning, beef production, state garden schools, dairy production, dairy manufacturing, field crops production, dairy herd testing, radio, nutrition school, advertising, oil burner schools, retail building supply marketing institute, textile conferences, quality concrete conference, poultry processors, personnel testing institute—introductory and advanced interviewing and counseling, management psychology, and personnel research, N. C. Press mechanical conference, short course in modern farming, industry research conference, brick and tile institute, safety school, nuclear engineering courses, and scores of others to benefit trade and professional groups.

The Gaston Technical Institute is conducted by the Extension Division as a division of the college's School of Engineering. Gaston Tech, located in Gastonia, offers four two-year technical training courses in electrical, civil, electronics and mechanical-production technology. A separate catalog on the school and its curricula is available upon request.

The North Carolina Truck Driver Training School conducts twelve four-week training courses for professional truck drivers each year. These schools are sponsored by the N. C. Motor Carriers Association. A bulletin giving complete details and application forms is available.

For additional information, persons interested in extension classes, correspondence courses or any of the other programs sponsored by the Extension Division should write Edward W. Ruggles, Division of College Extension, North Carolina State College, Raleigh, North Carolina.

MILITARY TRAINING

— — DEPARTMENT OF MILITARY SCIENCE AND TACTICS

Professor of Military Science and Tactics COL. L. W. MERRIAM

Assistant Professors of Military Science and Tactics LT. COL. HENRY J.

PIERCE, MAJOR VERNON B. DRUM, MAJOR DONALD J. MCGURK, MAJOR EDWIN M. REID, MAJOR TYRUS R. SPINELLA, MAJOR ROBERT A. TOLAR, CAPT. RUTH M. ISHAM, CAPT. JOHN W. MCDANIEL, JR., AND CAPT. PURDY B. MCLEOD, JR.

MILITARY TRAINING

DEPARTMENT OF AIR SCIENCE — — — — —

Professor of Air Science COL. ROBERT C. PAUL

Assistant Professors of Air Science MAJOR FRANK S. COVEY, MAJOR HILLIARD B. MCCULLOUGH, CAPT. MICHAEL E. ALVARADO, CAPT. RICHARD L. CARROLL, CAPT. JOHN B. FINK, CAPT. QUENTIN M. LEWIS, CAPT. KENDALL G. LORCH

OBJECTIVES — — — — —

The Reserve Officers' Training Corps (ROTC) at State College designates those students enrolled for training in the Department of Military Science and Tactics or in the Department of Air Science. These Departments are integral academic and administrative subdivisions of the institution. The senior Army officer and the senior Air Force officer assigned to the College are designated as Professor of Military Science and Tactics (PMST) and Professor of Air Science (PAS), respectively. These senior officers are responsible to the Secretary of the Army, the Secretary of the Air Force, and the Chancellor of the College for conducting their training and academic program in accordance with instructions issued by the respective secretaries and as required by college regulations. Army officers who are assigned to the College as instructors in ROTC are designated as Assistant Professors of Military Science and Tactics; Air Force officers, as Assistant Professors of Air Science. Non-commissioned officers of the Army are assigned as assistant instructors and administrative personnel. Non-commissioned officers of the Air Force are assigned as administrative and supply personnel.

The Army ROTC, in four years of military training, produces junior officers who have the qualities and attributes essential to their progressive and continued development as officers of the United States Army.

The mission of the Air Force ROTC, as defined by the Department of the Air Force, is to select and prepare students, through a permanent program of instruction at civilian educational institutions, to serve as officers in the regular and reserve components of the United States Air Force and to assist in discharging, where necessary, any institutional obligations to offer instruction in military training.

COURSES OF INSTRUCTION — — — — —

Programs of instruction for both Army and Air Force ROTC consist of a two-year basic course and a two-year advanced course. The satisfactory completion of the basic course in either the Army or Air Force ROTC is required for all physically fit male freshmen and sophomores unless they are excused by the College Administration.* The College provides, in co-operation with the Air Force and the Army, a flight instruction program. A limited number of highly qualified cadets from both ROTC units participate in this instruction, approximately 35 hours of flying in light aircraft plus ground school. Successful completion of this phase of the ROTC course qualifies the cadet for a Civil Aeronautics Administration approved private pilot's license. A detailed description of all military courses is given under each of the departments in the section of the Catalog which lists Course Descriptions.

MILITARY SCIENCE AND TACTICS — — — — —

The satisfactory completion of the first year of the Army ROTC course is a prerequisite to entering the second year. Enrollment in advanced courses is elective on the part of the student. The selection of advanced course stu-

* All veterans in active service as long as six months are excused from this requirement, but may enroll in the basic course of Army or Air Force to qualify for later enrollment in advanced courses.

dents is made from applicants who are physically qualified and who have above average academic and military records. Veterans who have one year or more of service in the Armed Forces are eligible for enrollment in the Army ROTC Advanced Course upon reaching their junior year, provided they are in good academic standing, physically qualified, have not reached their 27th birthday and are selected by the PMST and the Chancellor.

The Army ROTC course includes instruction in American Military History, Map Reading, Leadership, Military Teaching Methods, Military Administration, Operations and Logistics. These subjects not only prepare students to be officers in the United States Army, but also awaken in them an appreciation of the obligations of citizenship and secure for them personal benefits resulting from practical application of organization and responsible leadership.

AIR SCIENCE

Enrollment in the Air Force ROTC advanced course is elective on the part of the student. Selection of advanced course students is made from applicants who are physically qualified and who have above average academic and military records. Qualified veterans desiring a commission through the AFROTC will be required to take that portion of the basic course, with their non-veteran contemporaries, which remains before they are classified as academic juniors. All veterans must have completed their academic and military requirements prior to their 28th birthday.

The Air Force ROTC course of study includes instruction in Global Geography, International Tensions and Security Organizations, Instruments of National Military Security, Problem Solving Techniques, Principles of Leadership and Management, and Applied Air Science in addition to other applicable subjects. The Air Force ROTC curriculum is designed to prepare the student for his obligations of citizenship to his country both as an officer in the United States Air Force and as a civilian.

UNIFORMS AND EQUIPMENT

Officer's type uniforms for students enrolled in both basic and advanced courses in Army ROTC are provided by the Federal Government. Students enrolled in the basic course in Air Force ROTC are provided Air Force type uniforms; for students enrolled in advanced courses in both Army and Air Force ROTC the college is furnished a monetary allowance by the Federal Government for the purchase of uniforms. Army and Air Force equipment for instruction of students is provided by the Federal Government. Both uniforms and equipment are issued to the College, which is accountable for their care and use.

CREDIT

Credit is allowed for work at other institutions having an ROTC Unit established in accordance with the provisions of the National Defense Act and regulations governing the ROTC. Record of a student's prior training in the ROTC is obtained from the institution concerned.

FINANCIAL AID

Students enrolled in the advanced course are paid a monetary allowance in lieu of subsistence at the daily rate equal to the value of the commuted ration (\$0.90) for a total period not to exceed 595 days during the two years of the course. Students in the basic course receive no monetary allowance.

ORGANIZATION OF THE ROTC

ARMY

The Army ROTC Unit at State College consists of an Army regiment and a Drum and Bugle Corps. The Army regiment, commanded by a cadet colonel and staff, consists of a Headquarters Company and three battalions.

MILITARY TRAINING

The cadet colonel and all other cadet officers are selected from students enrolled in the second year advanced course. Cadet first sergeants and sergeants first class are appointed from students enrolled in the first year advanced course. Certain specially selected students in the second year basic course are also appointed as cadet non-commissioned officers. Cadet officers and non-commissioned officers obtain invaluable experience in leadership by being responsible for conducting all drill instruction. They are observed and supervised in this by the officers and non-commissioned officers of the Army assigned to the College.

AIR FORCE — — — — —

The Air Force ROTC unit consists of an Air Force Wing and a Drill Team. The Air Force ROTC Wing, commanded by a cadet colonel, consists of three groups, which are composed of four squadrons each. These squadrons are divided into three flights per squadron, each flight consisting of three squads. The wing, group, squadron, and flight commander and their staffs are cadet commissioned officers, and are selected from cadets enrolled in the second year advanced course. All other positions are held by cadet non-commissioned officers, who are selected from the first year advanced and second year basic cadets. Cadet officers and non-commissioned officers obtain invaluable experience in leadership by being responsible for planning and conducting all drill instruction. They are observed and supervised by the officers and airmen assigned to the College.

DISTINGUISHED MILITARY STUDENTS — — — — —

The College is authorized to designate outstanding students of the ROTC and AFROTC as Distinguished Military Students. These Students may, upon graduation, be designated Distinguished Military Graduates and may be selected for commissions in the regular Army or Air Force, provided they so desire.

SELECTIVE SERVICE IN RELATION TO THE ROTC — — — — —

Enrollment in the ROTC does not in itself defer a student from induction and service under the Universal Military Training and Service Act. The law provides that "within such numbers as may be prescribed by the Secretary of Defense, any person who (A) has been or may hereafter be selected for enrollment or continuance in the senior division, Reserve Officers' Training Corps, or the Air Force Reserve Officers' Training Corps, or the Naval Reserve Officers' Training Corps; (B) agrees, in writing, to accept a commission, if tendered, and to serve, subject to order of the Secretary of the Military Department having jurisdiction over him, not less than two years on active duty after receipt of a commission; and (C) agrees to remain a member of a regular or reserve component until the eighth anniversary of the receipt of a commission in accordance with his obligation under subsection (D) of section 4 of this title, shall be deferred from induction under this title after completion or termination of the course of instruction and so long as he continues in a regular or reserve status upon being commissioned, but shall not be exempt from registration."

We have magnified results rather than methods of instruction, the use of knowledge rather than its mere acquisition, and the value of our students (alumni) to themselves and to our State rather than the cost of the college's equipment and the greatness of its faculty.

Wallace Carl Riddick
President, 1916-1923

Our aim shall be to combine more completely our natural and human resources, to improve and simplify the machinery of life, and especially to discover and magnify the elements of worth in our students and stimulate a genuine passion for right living. Such a high aim realized will give a greater commonwealth and make certain a greater State College.

Eugene Clyde Brooks
President, 1923-1934

RIDDICK ENGINEERING LABORATORIES





RIDDICK ENGINEERING LABORATORIES

IV. DESCRIPTIONS OF COURSES

Alphabetically	Pages
A through B	170-182
C through D	182-197
E through F	197-220
G through H	220-229
I through L	229-240
M through O	241-256
P through R	256-271
S through Z	272-288

AGRICULTURAL ECONOMICS — — — — —

COURSES FOR UNDERGRADUATES

	Credits and Terms Offered
AGC 212 ECONOMICS OF AGRICULTURE	3 (3-0) f s
Prerequisite: EC 201	
An introduction to the economic principles underlying agricultural production; production organization in agriculture; consumers and their influence on the demand for agricultural products; the relationship between agriculture and the rest of the economy; dynamic factors in the economy as they affect agriculture.	
	Staff
AGC 303 FARM MANAGEMENT I	3 (2-2) f s
Prerequisite: AGC 212	
This course is designed to help students understand how basic economic principles and techniques of analysis can be applied in the successful operation of a farm business. Practice in planning the organization and operation of a farm, including an economic evaluation of alternatives is emphasized. Special attention is given to problems of mechanization, leasing arrangements, credit financing and labor management. Also, training in the use of farms records as an aid to better business management and in planning adjustments is provided.	
	Mr. Pierce
AGC 311 MARKETING AGRICULTURAL PRODUCTS	3 (2-3) f s
Prerequisite: AGC 212	
The objective of this course is to provide the student with a better understanding of the marketing system. Emphasis is placed on the role of the marketing firm in providing efficient marketing services, including a discussion of techniques for making management decisions. Public policies directed toward greater marketing efficiency are examined. Principles of marketing are supplemented with problems dealing with the reorganization of marketing firms, and with visits to firms marketing agricultural products.	
	Mr. Stemberger
AGC 322 ORGANIZATION AND MANAGEMENT OF COOPERATIVES	2 (2-0) s
Prerequisite: AGC 212	
A study of the principles of cooperation applied to farmers' purchasing, marketing, and service cooperatives; the role of cooperatives in our society, and problems associated with organization, operation and management.	
	Mr. King
AGC 342 MARKETING FIELD CROPS	3 (2-3) f
Prerequisite: AGC 212	
The marketing of cotton, tobacco and grain is studied by examining the management decisions made by the agricultural businesses marketing them. Particular attention is given to the processes by which decisions are made, to the effects of demand and supply conditions upon marketing and to the nature of the various influences affecting the prices of these commodities.	
	Staff
AGC 362 MARKETING DAIRY PRODUCTS	3 (3-0) f
Prerequisite: AGC 212	
Economic problems in marketing milk including management decisions concerning location, size and nature of processing plants; organization of assembly and delivery routes; bargaining and pricing schemes; analysis of consumer demand and government regulation of milk and milk products.	
	Staff
AGC 364 MARKETING FRUITS AND VEGETABLES	3 (2-3) s
Prerequisite: AGC 212	
Introduction to marketing with illustrations and particular application to fruits and vegetables; buying and selling decisions faced by farmers; supply and demand characteristics of principal fruits and vegetables; the organization of markets and methods of marketing; pricing and price discrimination; relation of the processing industry to firms marketing fresh products; and the role of government in establishing grades and standards, provision of inspection services and establishment of marketing orders and agreements.	
	Mr. King
AGC 372 MARKETING LIVESTOCK	3 (3-0) s
Prerequisite: AGC 212	
This course is concerned with the livestock marketing industry. It is a study of the businesses which handle livestock and meats from their production to the consumer. These businesses include farmers, local auction market and buying station operations, meat packers and retail meat markets. Each type of business operation is studied with the idea of determining the major economic problems which they face, the sources of these problems and the manner in which they may best be solved.	
	Mr. Williamson

COURSES FOR ADVANCED UNDERGRADUATES**AGC 413 FARM APPRAISAL AND FINANCE****3 (2-3) s**

Prerequisite: AGC 303

The principles of farm appraisal and practical methods used in determining the value of farms of various types and sizes; credit financing in agriculture, including (1) types, sources, and cost of credit, (2) repayment plans, (3) methods of determining when and how credit can be used effectively by farmers; special problems associated with agricultural credit.

Mr. Lindsey

AGC 431 INTRODUCTION TO AGRICULTURAL PRICES**3 (3-0) f**

Prerequisite: AGC 212

This course involves an examination of the behavior of agricultural prices as related to decision making of economic units. Emphasis will be placed upon the role of prices in the economy; the behavior of agricultural prices; the relation of prices to income, consumption and production of farm products; marketing practices which influence price formation in the exchange of agricultural products. Attention also will be given to methods of agricultural price analysis.

Mr. Pierce

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES**AGC 501 INTERMEDIATE AGRICULTURAL ECONOMIC THEORY****3 (3-0) f s**

Prerequisite: AGC 212, or equivalent

This course will deal with the functions of an economic system; theories of demand and utility; costs and production; competitive and monopolistic pricing; income distribution. (Advanced students outside Agricultural Economics may use this course to prepare for specialized graduate courses in Agricultural Economics, Econometrics, or Economics.)

Staff

AGC 512 LAND ECONOMICS**3 (3-0) f**

Prerequisite: AGC 212, or equivalent

The significance of land as a factor of production in the modern market economy; land resources, their use, and the conservation problem in the United States; the institutional setting: tenure, tenancy and the family farm in the United States and other countries; land policies: background and problems in Western countries and in underdeveloped areas of the world.

Staff

AGC 521 ECONOMICS OF AGRICULTURAL MARKETING**3 (3-0) s**

Prerequisite: AGC 311, or equivalent

A study of marketing firms as producers of marketing services and their role in the pricing process; the influence of government policies on the behavior of marketing firms; methods for increasing the efficiency of marketing agricultural products.

Mr. King

AGC 523 FARM MANAGEMENT II**3 (2-2) f**

Prerequisite: AGC 303, or equivalent

Study of the techniques in formulating and solving problems on characteristic farms in the state; decision-making principles as tools for assisting managers in appraising alternative solutions to problems of farm organization and methods of production; analysis of the functions of management including evaluation of resource adjustments that arise because of incomplete information and changing conditions; the development of county and area farm management programs.

Mr. Coutu

AGC 533 AGRICULTURAL POLICY**3 (3-0) s**

Prerequisite: AGC 212

This course is concerned with the farmer and his relationship to government. It is a study of past, present and potential governmental policies, their effects upon farmers and farm families, and upon the contribution which farmers make to material progress and social welfare. Among the governmental policy topics studied are production controls, price supports, storage operations, land conservation, research and education and international trade.

Mr. Williamson

AGC 551 AGRICULTURAL PRODUCTION ECONOMICS**3 (3-0) f**

Prerequisite: AGC 212

An introduction to some of the tools that are applicable to an economic analysis of agricultural production, including: production functions, cost functions, programming and decision making principles; and the applications of these principles to farm and regional resource allocation, and to the distribution of income to and within agriculture.

Mr. Toussaint

AGRICULTURAL ECONOMICS

AGC 552 CONSUMPTION, DISTRIBUTION AND PRICES IN AGRICULTURE 3 (3-0) s

Prerequisite: AGC 212

Basis for family decisions concerning consumption of goods and services and supply of owned factors of production; relation of decisions of the household to demand and supply in the aggregate; forces determining the incomes of households with particular attention to lessening of competition; uncertainty and economic growth in relation to household decisions and family incomes; introduction to related empirical studies.

Mr. Henry

AGC 561 SEMINAR IN CONTEMPORARY AGRICULTURAL PROBLEMS Maximum of 6

Prerequisite: Senior or graduate standing and consent of instructor

Analysis of economic problems of current interest in agriculture. Credit for this course will involve a scientific appraisal of a selected problem and alternative solutions.

Staff

COURSES FOR GRADUATES ONLY

AGC 602 MONETARY AND FISCAL POLICIES IN RELATION TO AGRICULTURE 3 (3-0) s

Prerequisite or corequisite: AGC 501, or equivalent

The essentials of monetary theory necessary in interpreting and evaluating monetary and fiscal operations and policies as to their effect upon income, employment and price level; the monetary and fiscal structure and the mechanics of monetary and fiscal operations in the United States; and the relation of monetary and fiscal policies to agricultural income and prices.

Messrs. Tolley, Williamson

AGC 611 WAGE, PRICE AND PRODUCTION POLICIES IN RELATION TO AGRICULTURE 3 (3-0) s

Prerequisite: AGC 602

Theories of wages and employment, collective bargaining and wage differentials; industrial organization in the economy; integration, price and production policies, costs and prices in the cycle, and government policies and workable competition; direct and indirect effects of labor and monopoly policies upon the employment of resources, national income and its distribution, price levels, wages, interest rates and upon economic magnitudes in agriculture.

Mr. Lindsey

AGC 612 INTERNATIONAL TRADE IN RELATION TO AGRICULTURE 3 (3-0) s

Prerequisite or corequisite: AGC 602 and 641

The principles of international and interregional trade; structures of trade relationships between countries engaged in the import or export of agricultural products; attempts at stabilizing trade and financial transactions.

Mr. Tolley

AGC 621 RESEARCH IN AGRICULTURAL ECONOMICS Credits by arrangement

Prerequisite: Graduate standing in Agricultural Economics and consent of Graduate Advisory Committee

A consideration of research methods and procedures employed in the field of agricultural economics, including qualitative and quantitative analysis, inductive and deductive methods of research procedure, selection of projects, planning and execution of the research project.

Graduate Staff

AGC 631 ECONOMIC AND SOCIAL FOUNDATIONS OF AGRICULTURAL POLICY 3 (3-0) f

Prerequisite: AGC 501, or equivalent

The study of logical and empirical problems of inquiry into public policies and programs that affect agriculture; analysis of policy-making processes, interdependencies among economic, political and social objectives and action; the study of forces which shape economic institutions and goals and of the logic, beliefs and values on which policies and programs that affect agriculture are founded.

Mr. McPherson

AGC 632 WELFARE EFFECTS OF AGRICULTURAL POLICES AND PROGRAMS 3 (3-0) f

Prerequisite: AGC 642

Descriptions of the conditions defining optimal resource allocation; application of the conditions for maximum welfare in appraisal of economic policies and programs affecting resource allocation, income distribution and economic development of agriculture.

Mr. Bishop

AGC 641 ECONOMICS OF PRODUCTION, SUPPLY AND MARKET INTERDEPENDENCY 3 (3-0) f s

Prerequisite: AGC 501, or equivalent

An advanced study in the logic of, and empirical inquiry into: producer behavior and choice among combinations of factors and kinds and quantities of output; aggregative consequences of individuals' and firms' decisions in terms of product supply and factor demand; factor markets and income distribution; general interdependency among economic variables of any economy.

Messrs. Seagraves, Williamson

AGC 642 ECONOMICS OF CONSUMPTION, DEMAND AND MARKET INTERDEPENDENCY

3 (3-0) s

Prerequisite: AGC 641 and ST 513, or equivalent

An advanced study in the theory of, and research into, household behavior; aggregative consequences of household decisions concerning factor supply and product demand; pricing and income distribution; economic equilibrium.

Mr. King

AGC 651 (ST 651) ECONOMETRIC METHODS I

3 (3-0) s

Prerequisite: ST 514, 521 and AGC 642

Decision making under uncertainty; stochastic elements in economic theories; problems of model construction; special techniques for analyzing simultaneous economic relations. Graduate Staff

AGC 652 (ST 652) ECONOMETRIC METHODS II

3 (3-0) f

Prerequisite: ST 513, 522 and AGC 641

Basic concepts of estimation and tests of significance as applied to economic data; empirical sampling methods; non-parametric methods; sequential testing; extension of least squares methods to research in economics; production surfaces; special topics in variance components and mixed models; use of experimental designs in economic research; elements of multivariate analysis; techniques for analysis of time series.

Mr. Anderson

AGC 671 ANALYSIS OF ECONOMIC DEVELOPMENT IN AGRICULTURE

3 (3-0) f

Prerequisite: AGC 642

A theoretical framework for analysis of the causal forces and the structural interdependencies under conditions of economic change; major problems likely to be encountered in empirical endeavor.

Mr. Maddox

AGRICULTURAL EDUCATION

COURSES FOR UNDERGRADUATES

ED 101 INTRODUCTION TO AGRICULTURAL EDUCATION

1 (1-0) f

A study of the job ahead, in college and as a teacher of vocational agriculture; present program in North Carolina.

ED 102 OBJECTIVES IN VOCATIONAL AGRICULTURE

1 (1-0) s

Purpose of vocational agriculture in the school program. Relation of objectives and evaluation. Financing vocational agriculture. Emphasis on the local school community as a setting for a program of vocational agriculture. Advantages of being a part of the public school.

ED 201 FFA IN VOCATIONAL AGRICULTURE

1 (1-0) s

Purposes of Future Farmers of America (FFA) in vocational agriculture, Relationship of FFA to supervised farming program. Developing leadership through FFA.

ED 313 ORGANIZING PROGRAMS OF VOCATIONAL AGRICULTURE

3 (3-0) s

Essentials of an effective program of vocational agriculture. Developing the program in the local community. Role of the teacher in developing the local program.

ED 411 STUDENT TEACHING IN AGRICULTURE

6 (3-12) f

The first seven weeks will be on campus; thereafter in selected schools. These schools will be selected and assigned, then visited by the students. Using the program in his selected school as a guide, the student will study methods of teaching vocational agriculture, including techniques of teaching, selecting and using reference materials, supplies, equipment and visual aids; organizing and conducting farming programs, FFA adult and young farmer classes and other phases of the vocational agriculture program. The student will plan effectively for student teaching in his selected school.

For the remainder of the semester, the student lives in his selected community. He takes part, and gets experience, in all phases of the vocational agriculture program. His student teaching is supervised by members of the staff in Agricultural Education and the local vocational agriculture teacher.

NOTE: 1. A student must have a "C" average at the time he registers for this course.

2. **Summer Practice**—During the summer prior to the year in which students register for Student Teaching, they will spend two weeks in a vocational agriculture department. It is recommended that one week be before the fall school term begins and the other week immediately following the opening of the school term.

ED 412 TEACHING ADULTS

2 (1-2) f

Principles of effective teaching applied to adult and young farmers. Experience in organizing and conducting groups for discussion of local problems.

AGRICULTURAL EDUCATION

ED 413 TEACHING MATERIALS

2 (1-2) f

Developing and using teaching materials for more effective instruction. Experience in this area with adult and high school classes.

ED 430 SENIOR SEMINAR

1 (1-0) f s

An analysis of the job of the teacher of vocational agriculture with particular emphasis upon current problems.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

ED 554 PLANNING PROGRAMS OF VOCATIONAL AGRICULTURE

3 (3-0) f s

Prerequisite: ED 411

Consideration of the community as a unit for planning programs in agricultural education; objectives and evaluation of community programs; use of advisory groups; school and community relationships; organization of the department and use of facilities.

Messrs. James, Scarborough

ED 558 SPECIAL PROBLEMS IN TEACHING

3 (3-0) f s

Prerequisite: ED 411

Opportunities for students to study particular problems in teaching under the guidance of the staff. (Maximum of 6 credits)

Graduate Staff

ED 563 EFFECTIVE TEACHING

3 (3-0) f s

Prerequisite: ED 411

Analysis of the teaching-learning process; assumptions that underlie course approaches; identifying problems of importance; problem solution for effective learning; relationship of learning and doing; responsibility for learnings; evaluation of teaching and learning; making specific plans for effective teaching.

Messrs. James, Scarborough

ED 568 ADULT EDUCATION IN AGRICULTURE

3 (3-0) f s

Prerequisite: ED 411

Designed to meet the needs of teachers as leaders in adult education. More emphasis is being given to working with adults as part of the community program of vo-ag. This course will give the teacher an opportunity to study some of the basic problems and values in working with adult groups. Particular attention will be given to the problem of fitting the educational program for adults into the high school program of vo-ag, as well as to methods of teaching adults.

Messrs. James, Scarborough

COURSES FOR GRADUATES ONLY

ED 616 ADVANCED PROBLEMS IN TEACHING

3 (3-0) f s

Prerequisite: ED 568

Group and individual study in current and advanced problems in the teaching and administration; evaluation of procedures and consideration for improving. (Maximum of 6 credits)

Graduate Staff

ED 617 PHILOSOPHY OF AGRICULTURAL EDUCATION

3 (3-0) f s

Prerequisite: ED 554

An examination of current educational philosophies and their relation to agricultural education. Principles and practices involved in the leadership of a teacher of agriculture and in making his work more effective in a rural community. Study of leaders in the field.

Mr. Scarborough

ED 618 SEMINAR IN AGRICULTURAL EDUCATION

1 (1-0) f s

A critical review of current problems, articles, and books of interest to advanced students in agricultural education. (Maximum of 2 credits)

Graduate Staff

ED 621 RESEARCH IN AGRICULTURAL EDUCATION

3 (3-0) f s

Prerequisite: Advanced graduate standing

Individual direction in research on a specific problem of concern to the student. Generally, the student is preparing his thesis or research problem. (Maximum of 6 credits)

Graduate Staff

ED 664 SUPERVISION IN AGRICULTURAL EDUCATION

3 (3-0) f s

Prerequisite: ED 563

Organization, administration, evaluation and possible improvement of present supervisory practice; theory, principles and techniques of effective supervision in agricultural education at different levels.

Messrs. Kirkland, Scarborough

— — — — — AGRICULTURAL ENGINEERING

COURSES FOR UNDERGRADUATES

AGE 151, 152 FARM MECHANICS

2 (2-2) f s

Prerequisite: Freshman in Agricultural Engineering or Mechanized Agriculture
Lecture and laboratory practice in woodworking, concrete and masonry work as applied to the design and construction of farm buildings; sharpening tools; plumbing; sheet metal and cold metal work; and electric and oxy-acetylene welding as applied to fabrication and repair work around the farm.

Messrs. Howell, Blum

AGE 201 FARM SHOP WOODWORK

2 (1-3) f s

Lecture and laboratory practice in blueprint reading, sketching and drawing, making bills of materials, farm shop planning, sharpening and fitting tools, use of hand and power tools in repairing farm buildings and appliances.

Messrs. Howell, Blum

AGE 202 FARM SHOP METALWORK

2 (1-3) f s

Lecture and laboratory practice in sheet metalwork, cold metalwork, arc and oxy-acetylene welding and farm shop planning.

Messrs. Howell, Blum

AGE 211 FARM POWER AND MACHINERY I

3 (2-2) f s

A study of modern farm machinery, power units and equipment with emphasis on selection, operation, maintenance, care and adjustments from the operator's viewpoint.

Messrs. Fore, Garner

COURSES FOR ADVANCED UNDERGRADUATES

AGE 302 AGRICULTURAL DRAWING

2 (0-6) f s

This is a course designed to study drawing-board work including sketching, elementary mechanical drawing, working drawings, lettering, tracing, blueprint reading, reproduction processes and job planning.

AGE 321 IRRIGATION, DRAINAGE AND TERRACING

3 (2-3) f s

4 (2-6) f

Prerequisite: CE 201 for 4 credit course

Needs for irrigation in the Southeast and methods of accomplishment; methods of draining excess water from agricultural areas; the use of basic surveying equipment; and the need for and methods of accomplishing erosion control by mechanical measures to supplement vegetative programs.

Mr. Wiser

AGE 331 DAIRY ENGINEERING

3 (2-3) s

Prerequisite: PY 211

This course embodies the application and maintenance of power, heating and refrigeration to equipment and controls used in dairy manufacturing.

AGE 332 FARM BUILDINGS AND CROP PROCESSING

3 (2-3) f

4 (2-6) f

Prerequisite: EM 341 for 4 credit course

Construction materials, structural features and design loads. Functional planning of farm buildings for housing domestic animals and for storing and handling farm crops. Curing and drying of farm crops.

AGE 341 FARM ELECTRIFICATION AND UTILITIES

3 (2-2) f

4 (2-4) f

Prerequisite: Junior standing

Problems and general study in the proper selection and use of applicable farm electric equipment and allied utilities.

Messrs. Weaver, Blum

AGE 371 SOIL AND WATER CONSERVATION ENGINEERING

4 (3-3) f

Prerequisites: CE 201, SOI 200

General aspects of agricultural hydrology, including precipitation, classification of climate, rainfall disposition, methods of estimating runoff, fundamental soil and water relationships and hydraulics of flow in open channels and closed conduits, will be given. Included also are factors affecting erosion, methods of controlling erosion, land use classification, drainage, land clearing, irrigation methods, design requirements for portable irrigation systems and economic aspects of irrigation in the Southeast.

Mr. Wiser

AGRICULTURAL ENGINEERING

AGE 401 FARM SHOP ORGANIZATION AND MANAGEMENT

3 (2-2) f s

Prerequisites: AGE 201 and 202

The use and care of power tools; planning of school shops and laboratories; selection of tools, materials and equipment; shop management; and methods of presenting the subject matter.

Messrs. Howell, Blum

AGE 411 FARM POWER AND MACHINERY IIB

3 (2-3) s

Prerequisite: AGE 211

This course is designed to provide students in Mechanized Agriculture with a knowledge of the operations of manufacturing and distributing organizations of farm machinery and their places in these organizations. Included is a practical course in farm tractors and engines with emphasis on familiarizing the student with component parts—their application, operation and maintenance, as well as with the selection of these units from the standpoint of power, performance and ratings.

Mr. Fore

AGE 451 CURING AND DRYING OF FARM CROPS

2 (1-2) f

Prerequisite: ME 301, EM 430 or taken concurrently

Physical properties of air, fuel and crop products as applied to the design of systems for the removal of moisture from crops. Problems involved in handling and storage in conjunction with driers

AGE 452 SENIOR SEMINAR

1 (1-0) f s

Students will prepare talks in their particular field of interest, presenting them to the group. Also, two or three field trips to selected points of educational opportunities will be made during the second semester. Maximum of two credits allowed.

Mr. Giles and Staff

AGE 462 FARM POWER AND MACHINERY IIA

4 (3-3) f

Prerequisites: AGE 211, EM 321

A study of the basic principles underlying the functional elements of farm machinery, including analysis of operation, functions of various components, basic studies of processes and the service adjustment and operation of current farm equipment. The course also includes a fundamental study of internal combustion engines and power trains to the various outlets; basic designs and applications of farm tractors, including hitches, power lifts and other integral parts.

Mr. Bowen

AGE 481 FARM STRUCTURES

4 (3-3) s

Prerequisites: AGE 451 and EM 321

Space and grouping arrangements, material use, and construction techniques to gain optimum efficiency, use and satisfaction from buildings on the farm. The design of walls and wall coverings to impair the transfer of heat and moisture. The design of building elements and their connections to withstand their imposed loads.

AGE 491 RURAL ELECTRIFICATION

4 (3-3) f

Prerequisite: EE 320

A study of the history and development of rural electrification, rates and costs of serving the farm with electricity; farm wiring and lighting; electric motors; water systems; feed grinding and other applications of electricity to farming. Also included for study are materials and design for rural distribution lines; switches and controls; heat and refrigeration; poultry and dairy equipment; and other applicable uses of electricity in farm processes.

Mr. Weaver

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

AGE 551 SPECIAL PROBLEMS

Credits by arrangement

Prerequisite: Senior or Graduate standing in Agricultural Engineering

Each student will select a subject on which he will do research and write a technical report on his results. He may choose a subject pertaining to his particular interest in any area of study in Agricultural Engineering.

Mr. Giles and Staff

AGE 552 INSTRUMENTATION FOR AGRICULTURAL RESEARCH AND PROCESSING

1 (0-2) f or s

Prerequisite: EE 320

Elaboration of the theory and principles of various primary sensing elements. Relates the output signal of electrical transducers to wheatstone bridge and potentiometer measuring circuits for calibration of the signal with the variable under study. Introduces the principles of circuits and mechanisms used for indicating, recording, and/or controlling process variables. Representative equipment will be employed whenever feasible.

Mr. Hassler

COURSES FOR GRADUATES ONLY

AGE 651 RESEARCH IN AGRICULTURAL ENGINEERING

Credits by arrangement

Prerequisite: Graduate status in Agricultural Engineering

Performance of a particular investigation of concern to Agricultural Engineering. The study will begin with the selection of a problem and culminate with the presentation of a thesis. A maximum of six credits is allowed towards a Masters Degree; no limitation on credits in Doctorate program.

Mr. Giles and Graduate Staff

AGE 652 SEMINAR

1 (1-0) f s

Prerequisite: Graduate standing

Elaboration of subject areas, techniques and methods peculiar to professional interest through presentations of personal and published works; opportunity for students to present and defend their ideas, concepts and inferences. A maximum of two credits may be earned.

Mr. Hassler

AGE 654 AGRICULTURAL PROCESS ENGINEERING

3 (3-0) f or s

Prerequisites: AGE 451, PY 402, MA 511

Operations employed during processing for maximizing consumer quality and economic gain. Agricultural processing operations are analyzed on a "unit operation" basis, taking into consideration physical and chemical changes. Generalized physical theory will be presented as it relates to idealizations in agricultural processing.

Mr. Hassler

AGE 661 ANALYSIS OF FUNCTION AND DESIGN OF FARM MACHINERY

3 (2-3) f or s

Prerequisites: AGE 462, MA 401, PY 401, Statistics

Methods and tools used in determining the functional requirements of machine components; writing of machine specifications in terms of fundamental parameters; introduction of the principles of discriminate and indiscriminate mechanical selection of agricultural products with emphasis on the theory of servo-systems.

Mr. Bowen

AGE 671 THEORY OF DRAINAGE, IRRIGATION AND EROSION CONTROL

4 (3-3) f or s

Prerequisites: AGE 371; EM 430, MA 401

Emphasis is placed on the physical and mathematical aspects of problems in conservation engineering and an attempt is made to rationalize procedures which have often come about through experience rather than through analytical considerations. Examples are presented of cases where such an analytical approach has already improved, or shows promise of improving, design criteria and procedures.

Mr. van Schilfgaarde

AGE 681 ANALYSIS OF FUNCTION AND DESIGN OF FARM BUILDINGS

4 (4-0) f or s

Prerequisites: AGE 481 and PY 402

A study of the functional requirements of farm structures with respect to man, animals and crops and development of the means for providing structures which fulfill the functional requirements. Application of the science and art of engineering in the solution of environmental problems. Advanced planning in the integration of structural and environmental design.

Graduate Staff

— — — — — AGRICULTURE

AG 101 AGRICULTURE AND WORLD AFFAIRS

3 (2-2) f

A required course for Freshmen in the School of Agriculture except those in Agricultural and Biological Chemistry. This course deals with the agriculture and agricultural regions of the United States. It also deals with population trends and densities in relation to food production and other natural resources throughout the world.

AG 301 AGENCIES AND PROGRAMS FOR AGRICULTURE

2 (2-0) s

A study of the major educational and service agencies designed to advance agriculture and rural living. The development of agricultural problems in the United States is traced as a background for consideration of the objectives, organization and procedures of these agencies and programs.

Mr. Sloan

AG 401 PRINCIPLES AND METHODS OF EXTENSION EDUCATION

3 (3-0) f

Prerequisite: Senior standing (Graduate credit in special cases with permission of committee)

A study of the background, development and operation of the Agricultural Extension Service. Consideration is given to major events leading to the establishment of Agricultural Extension, its objectives, organization and philosophy. Major emphasis is placed upon the principles underlying Extension education together with methods of program building and teaching.

Mr. Sloan

ANIMAL INDUSTRY

COURSES FOR UNDERGRADUATES

- AI 201 ELEMENTS OF DAIRY SCIENCE** 4 (3-3) f s
Fundamental principles of milk production; breeds, selection, feeding and management of dairy cattle; composition, quality and food value of milk products; principles of processing and manufacturing dairy products.
Messrs. Haig, Warren
- AI 202 FUNDAMENTALS OF ANIMAL HUSBANDRY** 4 (3-3) f s
Principles of feeding, managing and marketing meat animals. Year to year and seasonal price trends and relationships. Relation of slaughter grades to carcass cut-out values.
Mr. Wise
- AI 301 GRADING AND SELECTING MEAT ANIMALS** 2 (0-6) s
Study of breed characteristics and type by species. Market classes and grades of beef cattle, sheep and hogs relating live animal grade to carcass grade and cut-out value.
Mr. Gregory
- AI 303 MEAT AND MEAT PRODUCTS** 3 (1-6) s
Study of live animal and carcass relationship, dressing percentages and cut-out values. Slaughtering, cutting, curing, freezing and handling of meat and meat products for commercial and home use.
Messrs. Blumer, Craig
- AI 305 SELECTING DAIRY CATTLE** 2 (0-6) f
A study of dairy breed organization, functions, herd books and pedigree writing. Correlation of type and performance of dairy cattle and practice in oral expression of type.
Mr. Murley
- AI 306 SELECTING DAIRY CATTLE (ADVANCED)** 1 (0-3) s
Prerequisite: AI 305 and approval of instructor
Advanced study on correlation of type and performance of dairy cattle with emphasis on oral expression of type. A study of show-ring classification and practice in fitting and showing of animals.
Mr. Murley
- AI 307 ADVANCED SELECTION AND EVALUATION OF LIVESTOCK** 1 (0-6) f
Prerequisite: AI 301
Study of standards of animal excellence stressing the importance of methods in making rapid observations and appraisals and formulating logical and accurate decisions. Practice in oral expression will be provided.
Mr. Gregory
- AI 309 MEAT SELECTION** 1 (0-6) f
Detailed consideration of factors involved in selection of carcasses and wholesale cuts of beef, pork and lamb. Practice in identification of wholesale and retail cuts.
Mr. Blumer
- AI 312 PRINCIPLES OF LIVESTOCK NUTRITION** 3 (3-0) s
Prerequisite: CH 431 and ZO 301
Fundamentals of modern animal nutrition, including classification of nutrients, their general metabolism and roles in productive functions.
Mr. Ramsey
- AI 401 BEEF CATTLE PRODUCTION** 3 (2-3) s
Prerequisite: AI 202
Fundamental principles of the production of beef; selection, feeding and management of breeding herds and feeder cattle.
Mr. Gregory
- AI 402 SHEEP PRODUCTION** 3 (2-3) s
Prerequisite: AI 202
Study of the factors involved in the feeding, breeding, management and marketing of lamb, mutton and wool.
Mr. Ellis
- AI 403 PORK PRODUCTION** 3 (2-3) f
Prerequisite: AI 202
Study of production, management and marketing practices involved in the successful production of swine.
Mr. Clawson
- AI 404 DAIRY FARM PROBLEMS** 3 (2-3) s
Prerequisite: AI 201
Advanced study of practical dairy farm management including farm records, farm buildings, sanitation, roughage utilization and herd culling.
Mr. Murley

AI 406 ANIMAL INDUSTRY SEMINAR

Review and discussion of special topics and the current literature pertaining to all phases of animal production.

1 (1-0) s

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

AI 501 PHYSIOLOGY OF DOMESTIC ANIMALS

Prerequisite: ZO 301

A course in advanced physiology of domestic mammals with special reference to farm animals.

4 (3-3) f

Messrs. Thomas, Ulberg, Wise

AI 502 REPRODUCTION AND LACTATION

Prerequisite: ZO 301

Anatomy and physiology of the reproductive organs and mammary glands with detailed coverage of physiological processes involved and factors controlling and influencing them. Specific applications to farm animals including artificial insemination.

4 (3-3) s

Messrs. Mochrie, Myers, Ulberg

AI 503 ANIMAL BREEDING

Prerequisite: GN 411

Traits of economic importance in livestock production, and their mode of inheritance. Phenotypic and genetic relationships between traits. The place of selection, inbreeding and crossbreeding in a program of animal improvement.

3 (2-3) f

Mr. Farthing

AI 505 DISEASES OF FARM ANIMALS

Prerequisite: CH 101, 203; BO 421 desired

The pathology of bacterial, virus, parasitic, nutritional and thermal diseases, and mechanical disease processes.

3 (3-0) f

Mr. Osborne

AI 507 TOPICAL PROBLEMS IN ANIMAL INDUSTRY

Special problems may be selected or assigned in various phases of Animal Industry. A maximum of six credits is allowed.

Max. 6 f s

Staff

AI 513 NEEDS AND UTILIZATION OF NUTRIENTS BY LIVESTOCK

Prerequisite: AI 312 or equivalent

Measurement of nutrient needs of livestock and the nutrient values of feeds. Nutritive requirements for productive functions.

3 (3-0) f

Mr. Wise

COURSES FOR GRADUATES ONLY

AI 600 RESEARCH IN ANIMAL INDUSTRY

A maximum of six hours is allowed toward the Master's degree; no limitation on credits in Doctorate programs.

Credits by Arrangement f s

Graduate Staff

AI 601 SEMINAR IN ANIMAL NUTRITION

Prerequisite: Permission of seminar leaders

Orientation in philosophy of research; organization for research in agriculture, and general research methodology.

1 (1-0) f s

Nutrition Staff

AI 602 ADVANCED ANIMAL BREEDING

Prerequisite: ST 512, GN 512

A study of the forces influencing gene frequencies, inbreeding and its effects, and alternative breeding plans.

3 (Arranged) f

Mr. Legates

AI 603 ANIMAL NUTRITION: MINERAL METABOLISM

Prerequisite: CH 551

Role of minerals in the nutrition of animals with emphasis on available knowledge, a digest of progress already made and directions in which investigations need to be extended.

3 (3-0) f

Mr. Matrone

AI 614 (BO 614) PHYSIOLOGY OF MICROORGANISMS

Prerequisites: BO 312, CH 551

A study of the physical structure and chemical composition of microorganisms; the influence of physical and chemical agents on growth and reproduction; the metabolism of carbohydrates, proteins and lipids.

2 (2-1) s

Mr. McNeill

ARCHITECTURE—BIOLOGY—BOTANY

AI 621 (CH 621) ENZYMES AND INTERMEDIARY METABOLISM

4 (3-4) f

Prerequisites: CH 511 and permission of instructor

A study of the properties of enzymes and enzyme action; intermediary metabolism of carbohydrates, amino acids, fatty acids, vitamins, purines and phosphorins; metabolic energy relationships.

Mr. Tove

AI 623 (CH 623) BIOLOGICAL ASSAY OF VITAMINS

3 (2-2) s

Prerequisites: CH 551, ST 512

Techniques and designs of biological assays for vitamins. The interrelationship of logical principles, design and analysis is emphasized.

Graduate Staff

ANTHROPOLOGY — — — — —

See Sociology and Anthropology

ARCHITECTURE - — — — —

COURSES FOR UNDERGRADUATES

ARC 101-102 INTRODUCTION TO ARCHITECTURE

2 (1-3) f s

The application of the basic principles and fundamentals of design to architecture. The elements of descriptive geometry, architectural shades and shadows and perspective.

Staff

ARC 301-302 ARCHITECTURAL DESIGN I, II

6 (3-12) f s

Prerequisites: Design 202-212, EM 311, PY 212

Required of all third year students in Architecture Relationship of exterior and interior spaces. Structure as a primary and essential element in construction and design.

Messrs. Elliott, Taylor

ARC 401-402 ARCHITECTURAL DESIGN III, IV

6 (3-12) f s

Prerequisites: ARC 302, CE 339, EM 321

Required of all fourth year students in Architecture. A study of architectural design process as applied to larger buildings and groups of buildings. Introductory exercise in theory and practice of physical city planning.

Mr. Matsumoto

ARC 501-502 ARCHITECTURAL DESIGN V, VI

6 (3-12) f s

Prerequisites: ARC 402, CE 436

Required of all fifth year students in Architecture Research Design.

Mr. Caminos

BIOLOGY — — — — —

BI 301 FUNDAMENTALS OF BIOLOGY

3 (3-0) s

A survey of the major principles of the biological sciences. A course designed for students who have not had a college course in the biological sciences and who do not anticipate further study in biology. Not acceptable as a prerequisite for further work in the biological sciences.

Staff

BOTANY — — — — —

COURSES FOR UNDERGRADUATES

BO 101 GENERAL BOTANY

3 (3-0) f s

An introductory study of the structure, physiology and ecology of higher green plants.

Staff

BO 102 GENERAL BOTANY

3 (3-0) f s

Prerequisite: BO 101

A study of sexual reproduction and heredity in the flowering plants; a survey of the life histories of the major groups of non-green and green plants.

Staff

BO 211, 212 DENDROLOGY

Prerequisite: BO 102

2 (1-3) f s

Must be taken in the order listed except by permission

A systematic survey of the principal hardwood (angiosperm) and evergreen (gymnosperm) genera and species of North American trees. Emphasis is upon those of commercial significance and particularly those in the eastern United States.

Mr. Hardin

BO 312 GENERAL BACTERIOLOGY

Prerequisites: BO 102 or ZO 101; CH 101

4 (2-4) f s

Open to students in Sanitary Engineering with only the chemistry prerequisite

A study of the basic concepts and techniques of bacteriology; isolation, cultivation, observation, morphology, physiology and nutrition of microorganisms.

BO 403 SYSTEMATIC BOTANY

Prerequisite: BO 102

3 (0-6) s

A systematic survey of vascular plants emphasizing field identification, terminology and general evolutionary relationships.

Mr. Beal

BO 410 PLANT HISTOLOGY AND MICROTECHNIQUE

Prerequisites: BO 102; CH 203

3 (1-6) f

Studies of the principal tissues of Angiosperms in terms of the theory and practice of optical instrumentation, microtechnical preparations and photomicrography.

Mr. Ball

BO 421 PLANT PHYSIOLOGY

Prerequisites: BO 102; CH 203 or 103

4 (2-4) f s

An introductory treatment of the chemical and physical processes occurring in higher green plants with emphasis upon the mechanisms, factors affecting, correlations between processes, and biological significance.

Mr. Scofield

BO 441 PLANT ECOLOGY

Prerequisite: BO 102

3 (2-3) f

A study of the principles and factors determining the distribution of plants including discussion of the major groupings of plants into vegetational types.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

BO 512 MORPHOLOGY OF VASCULAR PLANTS

Prerequisite: BO 102

2 (1-3) f

A study of comparative morphology, ontogeny and evolution of the vascular plants. Emphasis is placed upon the phylogeny of sexual reproduction and of the vascular systems.

Mr. Ball

BO 513 PLANT ANATOMY

Prerequisite: BO 102

3 (2-2) s

A study of the anatomy of the Angiosperms and Gymnosperms. The development of tissues is traced from their origin by meristems to their mature states.

Mr. Ball

BO 521 SYSTEMATIC BOTANY OF MONOCOT FAMILIES

Prerequisites: BO 102, 403

3 (0-6) f

A comprehensive survey of the systematics of monocot families with special emphasis on grasses. Terminology, identification, relationships and economic significance are stressed.

Mr. Beal

BO 523 SYSTEMATIC BOTANY OF DICOT FAMILIES

Prerequisites: BO 102, 403

3 (0-6) s

A comprehensive survey of the systematics of dicot families. Emphasis is given to the history of systematics, its significance and relation to other disciplines, the principles of plant classification, major systems of classification and the International Rules of Botanical Nomenclature.

Mr. Hardin

BO 532, 533 ADVANCED PLANT PHYSIOLOGY

Prerequisite: BO 421 or equivalent

2 (2-0) f s

An advanced treatment of biophysical and biochemical processes and growth in higher green plants with emphasis upon the theoretical principles which form the basis for interpretations.

Mr. Troyer

CERAMIC ENGINEERING

BO 545 ADVANCED PLANT ECOLOGY

3 (2-3) s

Prerequisites: BO 421, 441 or equivalent

An advanced discussion of the principles, theories and methods of plant ecology.

BO 573 AQUATIC BOTANY

3 (1-6) s

Prerequisite: BO 102

A discussion of the taxonomy and ecology of the aquatic plants including the important fresh-water algae, aquatic bacteria, fungi, water "ferns", mosses and liverworts, and the important genera of flowering plants.

Mr. Whitford

COURSES LIMITED TO GRADUATE STUDENTS

BO 614 PHYSIOLOGY OF MICRO-ORGANISMS

3 (2-3) s

(See AI 614)

BO 635 THE MINERAL NUTRITION OF PLANTS

3 (2-3) s

Prerequisites: BO 421 and a course in Biochemistry

Discussion of the accumulation, translocation and utilization of mineral elements by higher plants. Emphasis will be placed on the relationships between these processes and plant metabolism.

Mr. Evans

BO 650 SPECIAL PROBLEMS IN BOTANY

Credits by arrangement f s

Graduate students in fields allied to Botany may conduct intensive study of a problem in some specialized phase of botany.

Graduate Staff

BO 651 RESEARCH IN BOTANY

Credits by arrangement f s

Graduate student majors in Botany undertake research problems preparatory to writing a Master's Thesis or a PhD Dissertation.

Graduate Staff

BO 661 BOTANY SEMINAR

1 (1-0) f s

Graduate student credit allowed if one paper per semester is presented at Seminar.

Graduate Staff

CERAMIC ENGINEERING — — — — —

COURSES FOR UNDERGRADUATES

MIC 210 CERAMIC MATERIALS AND PROCESSES

3 (2-3) f s

Designed for students not majoring in Ceramic Engineering. Includes raw materials, forming processes, effect of thermal treatment, properties and uses of ceramic products. Lecture and Laboratory.

MIC 301 CERAMIC OPERATIONS I

4 (3-3) f

Prerequisite: MIM 201

Unit operations pertaining to ceramic product manufacture. Crushing, grinding, particle size classification and packing. Colloidal and rheological properties of slips, slurries and plastic masses. Lectures and laboratory.

MIC 302 CERAMIC OPERATIONS II

3 (2-3) s

Prerequisites: MIC 301 and PY 201

A continuation of MIC 301. Dewatering of slips and slurries. Properties of air and air-vapor mixtures, heat transmission, fluid flow, drying, drier calculations, furnaces, kilns and kiln calculations. Lecture and Laboratory.

MIC 312 CERAMIC PROCESS PRINCIPLES I

4 (3-3) s

Corequisite: MIC 302

Effect of heat on non-metallic minerals. Thermodynamic calculations. Industrial fuels and combustion, review of heterogeneous equilibria. Crystal structures. Pyrochemical and pyrophysical changes in ceramic bodies. Lecture and Laboratory.

MIC 413 CERAMIC PROCESS PRINCIPLES II

4 (3-3) f

Prerequisites: MIC 312 and CH 532

A continuation of MIC 312. A study of the glassy state to include structure of glass, properties and types of glasses. Glazes, enamels, opacity, color and devitrification. Nature of glassy phases in kiln fired ceramic bodies. Lecture and Laboratory.

MIC 414 SENIOR THESIS

3 (1-6) f s

One semester required of seniors in Ceramic Engineering. A second semester may be elected. An introduction to research. Literature search, laboratory investigation and written report in the form of a thesis. Conference and laboratory.

MIC 415, 416 CERAMIC ENGINEERING DESIGN

2 (0-6) f s

The methods of ceramic equipment, structures and plant designing.

MIC 420 INDUSTRIAL CERAMICS

3 (3-0) s

A study of the various ceramic industries, including manufacturing techniques, labor and professional relationships, and the present and future status of the respective industries. Lectures and discussion.

MIC 425 SEMINAR

1 (1-0) f s

One semester required of seniors in Ceramic Engineering. A second semester may be elected. Literature survey of selected topics in ceramic engineering. Oral and written reports, discussions.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

MIC 503 CERAMIC MICROSCOPY

3 (2-3) f s

Prerequisite: MIC 531

Petrographic techniques for the systematic study of ceramic materials and products. Interpretation and representation of results.

MIC 505 RESEARCH AND CONTROL METHODS

3 (2-3) s

Prerequisite: MIC 413

Interpretation of results, instrumental methods applied to research and product development. Statistical quality control.

MIC 507, 508 ADVANCED CERAMIC EXPERIMENTS

3 (1-6) f s

Prerequisite: MIC 414 or equivalent

Advanced studies in ceramic laboratory experimentation.

MIC 511 ADVANCED STUDIES IN FIRING

3 (2-3) f s

Prerequisite: MIC 413

Advanced studies of ceramic firing procedures with emphasis on the design, calculation and economic evaluation of kilns and furnaces.

MIC 522 STRUCTURAL CLAY PRODUCTS

3 (3-0) s

Prerequisite: MIC 413

The technology of the structural clay products industries with emphasis on the latest developments in the field.

MIC 526 REFRACTORY TECHNOLOGY

2 (2-0) s

Prerequisite: MIC 413

The technology of refractory manufacture with emphasis on the latest advances in the field.

MIC 527 REFRACTORIES IN SERVICE

3 (2-3) f s

Prerequisite: CH 532

A study of the physical and chemical properties of the more important refractories in respect to their environment in industrial and laboratory furnaces.

MIC 532 TECHNOLOGY OF ABRASIVES

2 (2-0) s

Prerequisite: MIC 413

The methods of manufacture, properties and application of abrasives to industrial grinding, cutting and polishing.

MIC 535, 536 ENAMELS AND PROTECTIVE COATINGS

3 (3-0) f s

Prerequisite: MIC 413

The technology of ceramic coatings for ferrous, aluminum and special high temperature alloys used for domestic appliances, structural members aircraft parts, etc.

MIC 540 GLASS TECHNOLOGY

3 (3-0) s

Prerequisite: MIC 413

Fundamentals of glass manufacture including compositions, properties and applications of the principal types of commercial glasses.

MIC 543, 544 TECHNOLOGY OF THE WHITEWARE INDUSTRIES

3 (3-0) f s

Prerequisite: MIC 413

Technology of whiteware bodies and glazes.

MIC 548 TECHNOLOGY OF CEMENTS

3 (3-0) s

Prerequisite: MIC 413

The technology of the Portland cement industry including manufacture, control and uses.

CHEMICAL ENGINEERING

COURSES FOR GRADUATES ONLY

MIC 605, 606 CRYSTAL STRUCTURES

2 (2-0) f s

Prerequisite: CH 532

Basic laws of crystal structure. Relation of crystal structure to chemical and physical properties.

MIC 613 CERAMIC THERMAL MINERALOGY

3 (3-0) s

Prerequisite: MIC 605

Applications of the principles of thermalchemical mineralogy to ceramic problems.

MIC 650 CERAMIC RESEARCH

1 to 9 credits
per semester

An original and independent investigation in ceramic engineering. A report of such an investigation is required as a graduate thesis.

MIC 660 CERAMIC ENGINEERING SEMINAR

1 (1-0) f s

Reports and discussion of special topics in ceramic engineering and allied fields.

MIC 661, 662 SPECIAL STUDIES IN CERAMIC ENGINEERING

1 to 3 credits
per semester

Special studies of advanced topics in ceramic engineering. Credit will vary with the topic.

CHEMICAL ENGINEERING — — — — —

COURSES FOR UNDERGRADUATES

CHE 205 CHEMICAL PROCESS PRINCIPLES

4 (3-2) f

Prerequisites: MA 102, CH 103

Required of sophomores in Chemical Engineering

The calculation of material and energy balances, stoichiometry, gas laws, vapor pressure, humidity, saturation, thermophysics and thermochemistry. Three lectures and one problem period.

CHE 301, 302 ELEMENTS OF CHEMICAL ENGINEERING

3 (3-0) f s

An introduction to principles of chemical engineering including calculations involved in industrial processes and equipment. The course is designed for students not majoring in chemical engineering.

CHE 311 INTRODUCTORY CHEMICAL ENGINEERING

4 (3-3) s

Prerequisite: CHE 205

Required of sophomores in Chemical Engineering

A continuation of CHE 205. One laboratory period is devoted to typical chemical engineering measurements.

CHE 411 UNIT OPERATIONS I

3 (3-0) s

Prerequisite: MA 202, PY 202

Required of juniors in Chemical Engineering

Principles of fluid flow, heat transfer, evaporation, etc., with emphasis on design calculations.

CHE 412 UNIT OPERATIONS II

3 (3-0) f

Prerequisite: CHE 411

Required of seniors in Chemical Engineering

A continuation of CHE 411 with emphasis on the diffusional operations such as absorption, distillation, extraction, drying, etc.

CHE 415 CHEMICAL ENGINEERING THERMODYNAMICS

4 (3-2) f

Prerequisite: CHE 311

Required of juniors in Chemical Engineering

A study of the laws of thermodynamics and their application to chemical engineering problems. Emphasis on the theory, data and approximation methods as applied to physical and chemical systems.

CHE 431, 432 UNIT OPERATIONS LABORATORY I AND II

3 (1-6) f s

Prerequisite: CHE 411

Required of seniors in Chemical Engineering

Laboratory work on typical apparatus involving the unit operations. Experiments are designed to augment the theory and data of the lecture courses and to develop proficiency in the writing of technical reports.

CHE 453 CHEMICAL PROCESSING OF RADIOACTIVE MATERIALS 3 (3-0)

Consideration of the unique procedures required for the bulk manipulation of radioactive chemicals. Particular attention is given to remote operational procedures of precipitation, centrifugation, conveying, solvent extraction and ion exchange. Design of apparatus involving low maintenance and ease of replacement and cleaning by safe methods is considered. Other topics include decontamination procedures and disposal of wastes.

CHE 460 SEMINAR 1 (1-0) f s

One semester required of seniors in Chemical Engineering. Literature survey of selected topics in chemical engineering. Emphasis on written and oral presentation.

CHE 470 CHEMICAL ENGINEERING PROJECTS 2 Arrange f s

Elective for seniors in Chemical Engineering. Introduction to research through experimental, theoretical and literature studies of chemical engineering problems. Oral and written presentation of reports.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

CHE 525 PROCESS MEASUREMENT AND CONTROL 3 Arrange f s

Prerequisite: CHE 411
Theory and application of methods for measuring, transmitting, recording and controlling such process variables as temperature, pressure, flow rate, liquid level, concentration, humidity, etc. Commercial instruments are utilized for study of a wide variety of industrial control problems. Recorder-controllers are available for simulating industrial control problems of varying difficulty.

CHE 527 CHEMICAL PROCESS ENGINEERING 3 (3-0) s

Prerequisite: CHE 412
A study of selected chemical processes with emphasis on the engineering, chemical and economic factors involved.

CHE 540 ELECTROCHEMICAL ENGINEERING 3 (3-0) s

Prerequisite: Physical Chemistry
The application of electrochemical principles to such topics as electrolysis, electroanalysis, electroplating, metal refining, etc.

CHE 541 CELLULOSE INDUSTRIES 3 (3-0) f

Prerequisite: Organic Chemistry
Methods of manufacture and application of cellulose chemical conversion products. Emphasis placed on recent development in the fields of synthetic fibers, films, lacquers and other cellulose compounds.

CHE 542 TECHNOLOGY OF PULP AND PAPER 3 Arrange f

Prerequisite: Organic Chemistry
Fundamentals of pulp and paper manufacture with emphasis on recent advances in the field. One laboratory period per week is devoted to topics such as digestion and treatment of pulp, handsheet preparation and testing, fiber analysis and chemical and physical tests.

CHE 543 TECHNOLOGY OF PLASTICS 3 (3-0) s

Prerequisite: Organic Chemistry
The properties, methods of manufacture and application of synthetic resins. Recent developments in the field are stressed.

CHE 545 PETROLEUM REFINERY ENGINEERING 3 (3-0) s

Prerequisite: CHE 412
An introduction to the petroleum industry including (1) nature of petroleum and its fractions, octane numbers, viscosity relationships, etc., (2) operations of thermal and catalytic cracking, stabilization, alkylation isomerization, crude fractionation, etc., (3) problem work covering high pressure phase relationships and related material.

CHE 546 CHEMICAL REACTION RATES 3 (3-0) f

Prerequisite: CHE 415
A basic study of the rates of homogeneous reactions, heterogeneous reactions and catalysis.

CHE 551 THERMAL PROBLEMS IN NUCLEAR ENGINEERING 3 (3-0)

Prerequisite: ME 302 or 303; or CHE 411; or equivalent
The design and operation of nuclear reactors and the utilization of the power from them involves major problems in nearly every phase of heat transfer, and many important problems in fluid flow. Possible solutions to these problems are severely affected by the influences of radiation on heat transfer media, hazards of handling radioactive substances, etc. The course considers the thermal problems of nuclear reactor design and the principles of fluid flow and heat transfer necessary to their solutions.
The course is intended for engineers and science students with backgrounds in physics and mathematics and elementary thermodynamics.

CHEMICAL ENGINEERING

CHE 553 SEPARATION PROCESSES IN NUCLEAR ENGINEERING

3 (3-0)

Prerequisite: CHE 412, or equivalent

A study of the principles and techniques of separation and purification of chemical components, based upon mass transfer by diffusion. Specific techniques covered are distillation, extraction, adsorption and ion exchange, particularly in regard to continuous, counter-current operations. Special topics include a survey of fuel processing, technology of uranium processing, complexing action of solvents and halide distillation.

The course is primarily intended for engineers and science students with backgrounds in mathematics, physics and elementary chemistry but who have had no previous course in separation processes.

CHE 570 CHEMICAL ENGINEERING PROJECTS

3 Arrange f s

Prerequisite or concurrent: CHE 412

A laboratory study of some phase of chemical engineering or allied field.

COURSES FOR GRADUATES ONLY

CHE 610 HEAT TRANSFER I

3 (3-0) f

Prerequisite: CHE 411

An advanced course dealing primarily with heat transfer between liquids and solids, optimum operating conditions and design of equipment, conduction, heating and cooling of solids, radiant heat transmission.

CHE 611 HEAT TRANSFER II

2 (2-0) s

Prerequisite: CHE 610

An intensive study of recent advances in heat transfer and allied fields.

CHE 612 DIFFUSIONAL OPERATIONS

3 (3-0) f

Prerequisite: CHE 412

An advanced treatment of mass transfer particularly as applied to absorption, extraction, drying, humidification and dehumidification.

CHE 613 DISTILLATION

3 (3-0)

Prerequisite: CHE 412

Vapor-liquid equilibria of non-ideal solutions, continuous distillation of binary and multi-component systems, batch distillation, azeotropic and extraction distillation.

CHE 614 DRYING OF SOLIDS

2 (2-0)

Prerequisite: CHE 412

An advanced course on the mechanism of drying operations with application to design of equipment, such as cabinet, tunnel, rotary, drum and spray driers.

CHE 615 THERMODYNAMICS I

3 (3-0) f

Prerequisite: CHE 415

Advanced topics in Chemical Engineering thermodynamics including equilibria of physical and chemical systems, high pressure systems, generalized properties of hydrocarbons, etc.

CHE 616 THERMODYNAMICS II

2 (2-0) s

Prerequisite: CHE 615

An intensive study of recent advances in thermodynamics.

CHE 617 CATALYSIS OF INDUSTRIAL REACTIONS

3 (3-0)

Prerequisite: CHE 546

A study of the mechanism of catalysis with emphasis on practical application to operation and design of industrial processes.

CHE 631, 632 CHEMICAL PROCESS DESIGN

3 (3-0) f s

Prerequisite: CHE 412

Design and selection of process equipment, through solution of comprehensive problems involving unit operations, kinetics, thermodynamics, strength of materials and chemistry.

CHE 641, 642 ADVANCED CHEMICAL ENGINEERING LABORATORY

2 Arrange f s

Prerequisite: CHE 412

Advanced laboratory work in a selected field with emphasis on theory, techniques and performance of equipment.

CHE 650 ADVANCED TOPICS IN CHEMICAL ENGINEERING

1 to 3 credits
per semester f s

A study of recent developments in chemical engineering theory and practice, such as ion exchange, crystallization, mixing, molecular distillation, hydrogenation, fluorination, etc. The topic will vary from term to term.

CHE 660 CHEMICAL ENGINEERING SEMINAR

1 credit
per semester f s

Literature investigations and reports of special topics in chemical engineering and allied fields.

CHE 680 CHEMICAL ENGINEERING RESEARCH

1 to 9 credits
per semester f s

Independent investigation of an advanced chemical engineering problem. A report of such an investigation is required as a graduate thesis.

COURSES FOR UNDERGRADUATES

CH 101 GENERAL INORGANIC CHEMISTRY

4 (3-2) f s

The language of Chemistry, fundamental chemical laws and theories, limited study of selected chemical elements, compounds, reactions and processes.

Staff

CH 103 GENERAL AND QUALITATIVE CHEMISTRY

4 (3-2) f s

Prerequisite: CH 101

Homogeneous and heterogeneous equilibrium, oxidation and reduction, metallurgy, fundamental properties of metals, non-metals, their compounds, introduction to organic and nuclear chemistry, industrial applications of some metals, non-metals and their compounds. The laboratory work is entirely semimicro qualitative analysis.

Staff

CH 103 L SEMIMICRO QUALITATIVE ANALYSIS

1 (0-3) f s

Prerequisite: 1 year of General Chemistry not including Qualitative Analysis
Chiefly the laboratory work of CH 103.

CH 201 GENERAL INORGANIC CHEMISTRY

5 (3-6) f

Includes content of CH 101 supplemented by additional laboratory work.

Staff

CH 203 GENERAL AND ORGANIC CHEMISTRY

4 (3-3) f s

Prerequisite: CH 101

Chemistry 203 includes a further study of the principles of general chemistry as presented in CH 101, and also an introduction to Organic Chemistry. The Organic Chemistry survey includes the hydrocarbons, alcohols, ethers, aldehydes, ketones, acids and derivatives, esters, phenols, fats, carbohydrates, amino acids, proteins and a selected group of natural and synthetic products.

Staff

CH 205 GENERAL AND QUALITATIVE CHEMISTRY

5 (3-6) s

Prerequisite: CH 101 or 201

Includes content of CH 103 supplemented by additional laboratory work.

Staff

CH 211 QUANTITATIVE ANALYSIS

4 (2-6) f

Prerequisite: CH 103

Volumetric analysis, including the techniques, chemistry, stoichiometry and basic chemical principles of neutralization, oxidation and precipitation analysis with laboratory application to representative analyses.

Mr. Hentz

CH 212 QUANTITATIVE ANALYSIS

4 (2-6) s

Prerequisites: CH 211 and one semester of General Physics

Continuation of CH 211 to the study of potentiometric titrations, colorimetry, pH measurement, electrodeposition and gravimetric methods of analysis with representative laboratory applications.

Mr. Hentz

CH 215 QUANTITATIVE ANALYSIS

4 (3-3) f s

Prerequisite: CH 103

One semester course in Volumetric and Gravimetric analysis. Includes techniques, stoichiometry and principles of neutralization, oxidation and precipitation methods, and the chemistry of representative laboratory determinations.

Mr. Hentz

CH 401 SPECIAL TOPICS IN INORGANIC CHEMISTRY

3 (3-0) f

Prerequisite: CH 215

Structure of matter, periodic system, electronic structure and chemical bonding, acids, bases, salts, preparation of elements, halogen compounds, hydrides and carbonyls.

Messrs. Hentz, White

CH 421, 422 ORGANIC CHEMISTRY

5 (3-6) f s

Prerequisite: CH 212

Aliphatic and aromatic compounds, methods of preparation, purification and identification of compounds; emphasis on structure and mechanism of organic reactions.

Mr. Reid

CH 425, 426 ORGANIC CHEMISTRY

3 (2-3) f s

Prerequisite: CH 215

Structure, preparation, properties and reactions of aliphatic and aromatic substances.

Mr. Loeppert

CHEMISTRY

CH 430 ORGANIC PREPARATIONS

3 (1-6) s

Prerequisites: Three years of Chemistry including Organic Chemistry
Experiments selected to acquaint the student with advanced methods and techniques in the preparation of organic substances.

Mr. Loeppert

CH 451 INTRODUCTORY BIOCHEMISTRY

3 (2-3) f s

Prerequisite: CH 203

The fundamental biochemistry of living matter.

Mr. Satterfield

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

CH 527 ADVANCED SURVEY OF ORGANIC CHEMISTRY

3 (3-0) s

Prerequisites: Three years of Chemistry including Organic Chemistry
Underlying principles, interpretation of mechanisms, limitations in the use of organic reactions.

Mr. Reid

CH 528 QUALITATIVE ORGANIC ANALYSIS

3 (1-6) f

Prerequisites: Three years of Chemistry including Organic Chemistry
A study of class reactions, functional groups, separation, identification. Preparation of derivatives.

Mr. Reid

CH 529 QUANTITATIVE ORGANIC ANALYSIS

3 (1-6) s

Prerequisites: Three years of Chemistry including Organic Chemistry
Quantitative determination of carbon, hydrogen, nitrogen, the halogens, sulfur and various functional groups in organic materials, with emphasis on semimicro methods.

Mr. Loeppert

CH 531, 532 PHYSICAL CHEMISTRY

3 (3-0) f s

Prerequisites: CH 215, PY 202, MA 202

An intensive study of the states of matter, solutions, colloids, homogeneous and heterogeneous equilibrium, reaction kinetics, electrolysis, conductance, oxidation reactions and ionic equilibrium.

Mr. Sutton

CH 531 L, 532 L PHYSICAL CHEMISTRY LABORATORY

1 (0-3) f s

Prerequisites: CH 215, PY 202, MA 202

Laboratory course to accompany lecture work in physical chemistry.

Mr. Sutton

CH 533 PHYSICAL CHEMISTRY

3 (3-0) f

Prerequisite: CH 532

An intensive study of the structure of atoms and molecules, an introduction to statistics and selected subjects in thermodynamics.

Mr. Hentz

CH 537 INSTRUMENTAL METHODS OF ANALYSIS

4 (2-6) s

Prerequisites: Three years of Chemistry including CH 532

Physical methods of chemical analysis, the instruments employed and the theoretical basis for their operation.

Mr. Long

CH 542 COLLOID CHEMISTRY

3 (2-3) s

Prerequisite: CH 426

Adsorption, preparation, properties, constitution, stability, and application of sols, gels, emulsions, foams and aerosols; dialysis, Donnan membrane equilibrium.

Mr. White

CH 543 RADIOCHEMISTRY

3 (2-3) s

Prerequisites: CH 215 or 212, PY 520

Chemical techniques applied to separation of radioactive elements and preparation for counting. Applications of radioactivity to chemistry.

Mr. Hentz

CH 551 GENERAL BIOLOGICAL CHEMISTRY

5 (3-6) f

Prerequisites: CH 422, or equivalent of three years of Chemistry

The chemical constitution of living matter. Biochemical processes as well as compounds are studied.

Messrs. Peterson, Simmons

CH 552 PHYSIOLOGICAL CHEMISTRY

3 (2-3) s

Prerequisite: CH 551

Digestion, absorption, metabolism, secretions and excretions. Laboratory will include analysis of blood and urine.

Mr. Satterfield

CH 555 PLANT CHEMISTRY

3 (2-3) s

Prerequisite: CH 551

Composition of plants, properties, nature, and classification of plant constituents, changes occurring during growth, ripening and storage of plants or plant products.

Mr. Simmons

CH 561 CHEMISTRY OF CARBOHYDRATES AND LIPIDES

3 (3-0) s

Prerequisites: CH 422 or equivalent of three years of Chemistry

Classification, composition, distribution, biosynthesis and metabolism of lipides and carbohydrates, analysis, syntheses, deterioration. Physical properties and chemical reactions are also considered.

Messrs. Robinson, Simmons

CH 562 CHEMISTRY OF PROTEINS AND NUCLEIC ACIDS

3 (3-0) f

Prerequisites: CH 422, CH 551, or equivalent of three years of Chemistry

Composition, distribution, structure, properties and metabolism of amino acids, proteins and nucleic acids.

Messrs. Peterson, Simmons

CH 572 CHEMISTRY OF THE VITAMINS

3 (3-0) s

Prerequisites: CH 422, or equivalent of three years of Chemistry

History, nomenclature, properties, distribution, effects of deficiencies, vitamin values.

Mr. Satterfield

CH 601 ADVANCED ORGANIC CHEMISTRY

3 (3-0) f

Prerequisite: CH 527

Alicyclic and heterocyclic compounds, macromolecules. Standard type reactions.

Messrs. Reid, Loeppert, Robinson

CH 602 ADVANCED ORGANIC CHEMISTRY

3 (3-0) s

Prerequisites: CH 422, 532

Theoretical and physical aspects of Organic Chemistry; relations between chemical constitution and properties.

Mr. Loeppert

CH 621 (AI 621) ENZYMES AND INTERMEDIARY METABOLISM

4 (3-3) f

Prerequisites: CH 551

A study of the properties of enzymes and enzyme action, intermediary metabolism of carbohydrates, amino acids, fatty acids, vitamins, purines and porphyrins, metabolic energy relationships.

Mr. Tove

CH 623 (AI 623) BIOLOGICAL ASSAY OF VITAMINS

3 (2-2) s

Prerequisites: CH 551 or AI 312, ST 512

Techniques and designs of biological assays for vitamins; the interrelationships of logical principles, design and analysis is emphasized.

Graduate Staff

CH 631 CHEMICAL RESEARCH

Credits by arrangement

Prerequisites: 40 semester credits in Chemistry. Open to all graduates

Special problems that will furnish material for a thesis. A maximum of 6 semester credits is allowed toward a Master's degree, no limitation on credits in Doctorate programs.

Graduate Staff

CH 641 SEMINAR

Credits by arrangement

Prerequisite: Graduate standing in Chemistry

Required of graduate students specializing in Chemistry

Scientific articles, progress reports in research, and special problems of interest to chemists are reviewed and discussed.

A maximum of two semester credits is allowed toward the Master's Degree, but any number toward the Doctorate.

Graduate Staff

CH 651 SPECIAL TOPICS IN CHEMISTRY

Max. 3

Prerequisite: Graduate standing in Chemistry

Critical study of some special problems in one of the branches of Chemistry, involving original investigation together with a survey of pertinent literature.

Graduate Staff

CH 671, 672 ADVANCED PHYSICAL CHEMISTRY

3 (3-0) f s

Prerequisite: CH 532

The work of 671 will involve a thorough review of the fundamental principles of physical chemistry with extension and application of these to the study of the solid state. In 672 there will be laid down the elements of statistical mechanics and kinetic theory, in terms of which certain topics from 671 will be more exhaustively developed. Solution of problems will play an important role in 671.

Mr. Sutton

CIVIL ENGINEERING — — — — —

COURSES FOR UNDERGRADUATES

CE 201 SURVEYING I

3 (1-5) f s

Prerequisite: MA 101

Required of sophomores in Civil Engineering, Civil Engineering Construction Option, Geological Engineering and in Landscape Architecture

Elements of plane surveying: taping, transit, level, stadia, plane table, topographic surveying and mapping, care and adjustment of instruments; public land surveys.

CE 202 SURVEYING II

3 (1-5) s

Prerequisite: CE 201

Required of sophomores in Civil Engineering and Civil Engineering Construction Option

Construction surveys; earthwork computations; route surveys; simple, compound, parabolic and spiral curves; elementary astronomical surveying.

CE 217 FORESTRY SURVEYING

4 (2-6) s

Prerequisite: MA 111

Required of sophomores in Forestry

Elements of plane and topographic surveying and mapping; U. S. Public Land Surveys; forestry surveying.

CE 305, 306 TRANSPORTATION ENGINEERING I, II

3 (3-2) f s

Prerequisite: CE 202

Required of juniors in Civil Engineering

Transportation systems; elements of railroad, highway, traffic and airport engineering; physical and mechanical properties of soils that govern their use as engineering materials.

CE 321 MATERIALS TESTING LABORATORY I

2 (1-3) f s

Prerequisite: EM 311

Required of juniors in Civil Engineering and Civil Engineering Construction Option

Properties of cementing materials, mortars, concretes, ceramic products, building stones; proportioning mortars and concretes; physical properties and performance characteristics of timber, plywood, glued construction and timber fastenings; ASTM standards.

CE 322 MATERIALS TESTING LABORATORY II

2 (1-3) f s

Corequisite: EM 321

Required of juniors in Civil Engineering and Civil Engineering Construction Option

Properties of structural metals, riveted and welded joints; failures of materials; significance of test results; selection of working stresses; field methods for measuring load, deflection and strain.

CE 324 STRUCTURAL ANALYSIS I

3 (2-3) s

Prerequisite: EM 311

Required of juniors in Civil Engineering and Civil Engineering Construction Option

Stress analysis of statically determinate beams and framed structures under fixed and moving loads; influence line treatment for moving loads; analysis and design of a simple truss.

CE 338 STRUCTURES I

3 (3-0) f

Prerequisite: EM 311

Required of juniors in Architecture

Analysis of simple structures; reactions, shear and moment diagrams; stresses in members of framed structures; graphic statics.

CE 339 STRUCTURES II

3 (3-0) s

Prerequisites: CE 338 and EM 321

Required of juniors in Architecture

Analysis of indeterminate structures; slopes and deflections; analysis of indeterminate frames by moment distribution.

CE 351 DETAILS OF BUILDING CONSTRUCTION

2 (2-0) f

Prerequisite: Junior standing

Required of juniors in heating and air conditioning.

Structural systems with particular emphasis on location of equipment.

CE 361 ESTIMATES AND COSTS I

3 (2-3) f

Prerequisite: Junior standing

Required of juniors in Civil Engineering Construction Option

Interpretation of working drawings; analysis of construction plans and specifications; approximate and detailed estimates of costs.

CE 362 ESTIMATES AND COSTS II

3 (2-3) s

Prerequisite: CE 361

Required of juniors in Civil Engineering Construction Option

Preparation of complete cost estimates of construction projects; bidding procedures and preparation of bids.

CE 382 HYDRAULICS

3 (3-0) f s

Prerequisite: EM 312

Required of juniors in Civil Engineering

Properties of fluids and mechanics of fluid flow in pipes and open channels; theory of design and characteristics of pumps and hydraulic motors; measurement of fluid flow.

CE 390 INTRODUCTION TO SANITARY ENGINEERING

1 (1-0) f s

Prerequisite: CH 103

Elective

Survey of sanitary engineering.

COURSES FOR ADVANCED UNDERGRADUATES

CE 425 STRUCTURAL ANALYSIS II

3 (2-3) f

Prerequisites: CE 324 and EM 321

Required of seniors in Civil Engineering

Deflection of beams and trusses; indeterminate stress analysis by moment area slope deflection and moment distribution.

CE 427 STRUCTURAL DESIGN I

4 (3-3) f

Prerequisite: EM 321

Required of seniors in Civil Engineering and Civil Engineering Construction Option

Analysis and design of reinforced concrete building elements; design of tension, compression and simple flexural members of steel and of timber.

CE 428 STRUCTURAL DESIGN II

3 (1-6) s

Prerequisite: CE 427

Required of seniors in Civil Engineering

Design specifications; connection details; independent and complete design of engineering structures.

CE 429 STRUCTURAL DESIGN III

3 (2-3) s

Prerequisite: CE 427

Required of seniors in Civil Engineering Construction Option

Design of tension, compression and flexural elements of steel and timber; solution of problems in erection, forms, shoring and falsework.

CE 435 STRUCTURES III

3 (2-2) f

Prerequisite: CE 339

Required of seniors in Architecture

Principles of steel and timber design.

CE 436 STRUCTURES IV

4 (2-4) s

Prerequisite: CE 435

Required of seniors in Architecture

Principles of reinforced concrete design and elements of foundations.

CE 442 SOIL MECHANICS

3 (2-3) f

Prerequisite: CE 305

Required of seniors in Civil Engineering

Fundamental stress relations, Mohr's rupture hypothesis, shearing strength, earth pressure theories, bearing capacity, stability of slopes, hydrostatics, and hydrodynamics of ground water.

CE 443 FOUNDATIONS

3 (3-0) s

Prerequisite: CE 427

Required of seniors in Civil Engineering Construction Option

Identification and classification of soils; geological aspects of foundation engineering; method of investigating subsoil conditions; control of water; types of foundations and conditions favoring their use; legal aspects of foundation engineering.

CE 461 PROJECT PLANNING AND CONTROL I

3 (2-3) f

Prerequisite: CE 362

Required of seniors in Civil Engineering Construction Option

Analysis of construction plant layout requirements and performance characteristics of equipment.

CE 462 PROJECT PLANNING AND CONTROL II

3 (2-3) s

Prerequisite: CE 461

Required of seniors in Civil Engineering Construction Option

Scheduling, analysis and control of construction projects.

CIVIL ENGINEERING

CE 464 LEGAL ASPECTS OF CONTRACTING

3 (3-0) s

Prerequisite: Senior standing

Required of seniors in Civil Engineering Construction Option; elective

Legal aspects of construction contract documents and specifications; owner-engineer-contractor relationships and responsibilities; bids and contract performance; labor laws.

CE 481 HYDROLOGY AND DRAINAGE

2 (2-0) f

Prerequisite: EM 312

Required of seniors in Civil Engineering

Occurrence and distribution of rainfall; runoff, surface and ground waters; design of drainage and control structures.

CE 482 WATER AND SEWAGE WORKS

3 (3-0) s

Prerequisite: Senior standing

Required of seniors in Civil Engineering

Water supply analysis and design, including population estimates, consumption, source selection, adequate, distribution systems and pumping stations; elements of water treatment; collection and disposal of sewage; elements of sewage treatment.

CE 485 ELEMENTS OF HYDRAULICS AND HYDROLOGY

3 (3-0) f

Prerequisite: EM 312

Required of seniors in Civil Engineering Construction Option

Elements of fluid mechanics, hydraulics and hydrology, with application to problems in construction engineering.

CE 492, 493 PROFESSIONAL PRACTICE I, II

1 (1-0) f s

Prerequisite: Senior standing

Required of seniors in Civil Engineering and Civil Engineering Construction Option

Professional engineering societies and their functions; professional standards; topics of current interest to the civil engineer.

CE 497, 498 ENGINEERING CONSULTATION

2 (1-2) f s

Prerequisite: Fifth-year standing

Required of fifth-year students in Architecture

Discussion of engineering problems in architecture.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

CE 507 AIRPHOTO ANALYSIS I

3 (2-3) f s

Prerequisite: Junior standing

Engineering evaluation of aerial photographs, including analysis of soils and surface drainage characteristics.

CE 508 AIRPHOTO ANALYSIS II

3 (2-3) s

Prerequisite: CE 507

Engineering evaluation of aerial photographs for highway and airport projects.

CE 510 ADVANCED SURVEYING

3 (2-3) f s

Prerequisite: CE 202

Elements of astronomical, geodetic and photogrammetric surveying; coordinate systems and map projections.

CE 514 MUNICIPAL ENGINEERING PROJECTS

3 (2-3) s

Prerequisite: Senior standing

Special problems relating to public works, public utilities, urban planning and city engineering.

CE 515 TRANSPORTATION ANALYSIS

3 (3-0) f

Prerequisite: CE 306

An analysis of transportation operations and transportation facilities.

CE 516 TRANSPORTATION ENGINEERING DESIGN

3(2-3) f

Prerequisite: CE 306

The basic elements of traffic and transportation engineering design.

CE 521, 522 ADVANCED STRUCTURAL DESIGN I, II

3 (2-3) f s

Prerequisite: CE 425

Complete structural designs of a variety of projects; principles of limit and prestress design.

CE 524 ANALYSIS AND DESIGN OF MASONRY STRUCTURES**3 (3-0) s**

Prerequisite: CE 425

Analysis and design of arches, culverts, dams, foundations and retaining walls.

CE 531 EXPERIMENTAL STRESS ANALYSIS**3 (2-3) f**

Prerequisite: CE 425

Principles and methods of experimental analysis; dimensional analysis; applications to full-scale structures.

CE 532 STRUCTURAL LABORATORY**3 (1-6) s**

Prerequisite: CE 531

Test procedures and limitations and interpretation of experimental results.

CE 544 FOUNDATION ENGINEERING**3 (3-0) f s**

Prerequisite: CE 442

Subsoil investigations; excavations; design of sheeting and bracing systems; control of water; footing, grillage and pile foundations; caisson and cofferdam methods of construction; legal aspects of foundation engineering.

CE 547 FUNDAMENTALS OF SOIL MECHANICS**3 (3-0) f s**

Prerequisite: EM 321

Physical and mechanical properties of soils governing their use for engineering purposes; stress relations and applications to a variety of fundamental problems.

CE 548 SOIL TESTING FOR ENGINEERING PURPOSES**3 to 6 (arrange) f s**

Prerequisite: CE 442 or CE 547

Qualitative and quantitative soil testing procedures for engineering purposes.

CE 570 SANITARY MICROBIOLOGY**3 (2-3) f s**

Prerequisite: BO 312

Dynamics of disinfection and bacteriostasis; microbiology of water and sewage and of sewage treatment processes.

CE 571 THEORY OF WATER AND SEWAGE TREATMENT**3 (3-0) f**

Prerequisite: Senior Standing

Study of the physical and chemical principles underlying water and sewage treatment processes; diffusion of gases, solubility, equilibrium and ionization, anaerobic and aerobic stabilization processes, sludge conditioning and disposal.

CE 572 UNIT OPERATIONS AND PROCESS IN SANITARY ENGINEERING**3 (1-6) s**

Prerequisite: CE 571

Processes and operations in sanitary engineering; sedimentation, aeration, filtration, adsorption, coagulation, softening, sludge digestion, aerobic treatment of sewage.

CE 573 ANALYSIS OF WATER AND SEWAGE**3 (1-6) f**

Corequisite: CE 571

Chemical and physical analysis of water and sewage and interpretation of results.

CE 591, 592 CIVIL ENGINEERING SEMINAR**1 (1-0) f s**

Discussions and reports of subjects in civil engineering and allied fields.

CE 598 CIVIL ENGINEERING PROJECTS**1 to 6 (arrange) f s**

Special projects in some phases of civil engineering.

COURSES FOR GRADUATES ONLY**CE 601 TRANSPORTATION PLANNING****3 (2-3) s**

Prerequisite: CE 515

Transportation planning as related to urban planning and land usage.

CE 602 ADVANCED TRANSPORTATION ENGINEERING DESIGN**3 (2-3) s**

Prerequisite: CE 516

Corequisite: CE 601

The planning and design of major traffic and transportation engineering projects.

CE 603 AIRPORT PLANNING AND DESIGN**3 (2-3) s**

Prerequisite: CE 515

Corequisite: CE 601

The analysis, planning and design of air transportation facilities.

CE 604 URBAN PLANNING AND MASS TRANSPORTATION**3 to 6 (arrange) s**

Prerequisite: CE 515

Corequisite: CE 601

The analysis, planning and design of mass transportation facilities.

DAIRY MANUFACTURING

CE 621, 622 ADVANCED STRUCTURAL ANALYSIS I, II

3 (3-0) f s

Prerequisite: CE 425

Analysis of rigid frames and continuous structures; treatment of redundant members and secondary stresses.

CE 624 THEORY AND DESIGN OF ARCHES, THIN SHELLS AND DOMES

3 (3-0) s

Prerequisite: CE 621

Corequisite: EM 602

Analysis and design of hinged and rigid arches of both frame and rib construction; and of thin shells and domes.

CE 626 STRUCTURAL CONNECTIONS

3 (3-0) s

Prerequisite: CE 621

Analysis of stresses in simple, rigid and semi-rigid connections; critical review of specifications.

CE 641, 642 ADVANCED SOIL MECHANICS

3 (3-0) f s

Prerequisite: CE 442 or

Corequisite: CE 547

Theories of soil mechanics; failure conditions; mechanical interaction between solids and water, and problems in elasticity pertaining to earthwork engineering.

CE 643 HYDRAULICS OF GROUND WATER

3 (3-0) f s

Prerequisite: CE 442 or 547

Principles of ground water hydraulics; theory of flow through idealized porous media; the flow net solution; seepage and well problems.

CE 671 ADVANCED WATER SUPPLY AND SEWERAGE

4 (3-3) f

Prerequisite: CE 482

Problems relating to the design of water supply and sewerage works.

CE 672 ADVANCED WATER AND SEWAGE TREATMENT

4 (3-3) s

Prerequisite: CE 482

Problems relating to the treatment of water and sewage.

CE 673 INDUSTRIAL WATER SUPPLY AND WASTE DISPOSAL

3 (3-0) f s

Corequisite: CE 571

Water requirements of industry and the disposal of industrial wastes.

CE 674 STREAM SANITATION

3 (3-0) f s

Corequisite: CE 571

Biological, chemical and hydrological factors that affect stream sanitation and stream use.

CE 698 CIVIL ENGINEERING RESEARCH

1-6 (arrange) f s

Independent investigation of an advanced civil engineering problem; a report of such an investigation is required as a graduate thesis.

DAIRY MANUFACTURING (ANIMAL INDUSTRY) - — — —

COURSES FOR UNDERGRADUATES

DM 400 PLANT EXPERIENCE

Maximum 6

Prerequisite: Approval of adviser

Practice in processing dairy products, including milk, ice cream, cheese, butter and concentrated milks; application of laboratory control; and practice in dairy equipment maintenance. Required of all Dairy Manufacturing majors, unless proof of equivalent experience can be shown.

Staff

DM 401 MARKET MILK AND RELATED PRODUCTS

3 (2-3) s

Prerequisite: Approval of instructor

Principles and information on the production, processing, distribution and public health control of fluid milk and related products.

Mr. Roberts

DM 402 CHEESE

3 (2-3) s

Prerequisite: Approval of instructor

Principles and practice in the manufacture and curing of various types of cheese; importance and propagation of cheese starters.

Mr. Warren

DM 403 ICE CREAM AND RELATED FROZEN DAIRY FOODS

3 (2-3) f

Prerequisite: Approval of instructor

Choice, preparation and processing of ingredients and freezing of ice cream and other frozen desserts.

Mr. Warren

DM 404 BUTTER AND DAIRY BY-PRODUCTS

3 (2-3) s

Prerequisite: Approval of instructor

A study of the fundamentals of buttermaking, and the principles of manufacturing concentrated and dried milks.

Mr. Warren

DM 405 DAIRY MECHANICS

1 (0-3) f

Prerequisite: Approval of Instructor

Laboratory practice in the operation and maintenance of dairy plant equipment and refrigeration systems; malfunctions of electrical systems; installation of sanitary milk lines and water lines.

Mr. Blanton

DM 406 JUDGING DAIRY PRODUCTS

1 (0-3) s

Prerequisite: Approval of instructor

Milk and dairy products judging according to official standards and commercial grades.

Mr. Warren

DM 407 DAIRY BACTERIOLOGY I

4 (2-4) f

Prerequisite: BO 312

Applications of the principles of bacteriology to the production of quality milk and maintenance of quality in processing milk and milk products; various desirable and undesirable activities of bacteria in milk; methods of enumerating bacteria; detecting certain groups of bacteria of particular importance; and the relationships of bacteria in milk to public health.

Mr. Speck

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

DM 501 ADVANCED DAIRY TECHNOLOGY

3 (1-6) f

Prerequisite: DM 401

The functions and operations of a dairy control laboratory; a comprehensive study of methods of analyses of dairy products and related non-dairy products; the application and interpretations of methods for quality and composition control of dairy products.

Mr. Warren

DM 504 DAIRY PLANT MANAGEMENT

4 (3-2) s

Prerequisite: DM 401

Business and factory management practices as used in the dairy plant.

Mr. Roberts

DM 506 DAIRY BACTERIOLOGY II

3 (0-6) s

Prerequisite: DM 407, or equivalent

A detailed study of bacteria particularly involved in the dairy industry regarding their physiology, morphology and cultural characteristics with application to practical dairy farm and plant problems.

Mr. Speck

DM 508 DAIRY CHEMISTRY

3 (1-4) f

Prerequisite: CH 103 or 203, DM 401

A qualitative study of the physical, colloidal and chemical properties of milk and its constituents.

Mr. Aurand

COURSES FOR GRADUATES ONLY

DM 601 SEMINAR IN DAIRY MANUFACTURING

**1 (1-0) f s
1 credit per term**

Prerequisite: Graduate standing in Dairy Manufacturing

Scientific articles, process reports in research and special problems of interest are reviewed and discussed. A maximum of two credits is allowed toward the Master's degree, but any number toward the Doctorate.

Graduate Staff

DM 602 ADVANCED DAIRY CHEMISTRY

4 f s

Prerequisite: DM 508

A quantitative study of the physical, colloidal and chemical properties of milk and its constituents.

Mr. Aurand

DM 603 ADVANCED DAIRY BACTERIOLOGY

4 f s

Prerequisite: DM 506

Industrial fermentations used or applicable in the utilization of surplus milk and milk products. The student conducts various fermentations and makes the requisite chemical and biological measurements in order to determine yields and efficiency of the process.

Mr. Speck

DESIGN

DM 604 TOPICAL PROBLEMS IN DAIRY MANUFACTURING

1 to 3 credits per term

Prerequisite: Graduate standing in Dairy Manufacturing
Special problems in various phases of dairy manufacturing. A maximum of six credits is allowed.

Graduate Staff

DM 605 RESEARCH IN DAIRY MANUFACTURING

Credits by arrangement

Prerequisite: Graduate standing in Dairy Manufacturing
A maximum of six credits is allowed toward the Master's Degree; no limitation on credits in Doctorate programs.

Graduate Staff

DESIGN

COURSES^a FOR UNDERGRADUATES

DN 101, 102 DESIGN I, II

3 (3-6) f s

Required of all first year students in the School of Design.
Introduction to the elements and expression of two and three dimensional design involving a variety of tools, materials, and techniques. Orientation of historical and contemporary concepts of art and architecture.

Messrs. Gussow, Hertzman

DN 111, 112 DESCRIPTIVE DRAWING I, II

2 (0-4) f s

Required of all first year students in the School of Design.
Problems in analysis of visual perception with emphasis placed on the various systems man has developed to reduce visual experience into a two dimensional frame of reference. Freehand studies from nature as a means of studying drawing methods.

Messrs. Sengupta, Taylor

DN 201, 202 DESIGN III, IV

4 (3-6) f, 5 (3-6) s

Prerequisite: DN 102

Required of all second year students in the School of Design.
The design sequence for this year seeks the solutions of problems which will tax the student's imaginative powers without making unreasonable demands on his newly gained technical abilities. Emphasis is placed on the architectural application of more general design principles to which the student has been previously exposed.

Messrs. Buisson, Waugh

DN 211, 212 DESCRIPTIVE DRAWING III, IV

2 (0-4) f s

Prerequisite: DN 112

Required of all second year students in the School of Design.
Problems involving both analysis and synthesis whereby the student continues with the studies begun in the freshman year with the added element of learning to create images of possible visual experience wholly from imaginative process.

Mr. Cox

DN 311, 312 DESCRIPTIVE DRAWING V, VI

2 (0-6) f s

Prerequisite: DN 212

Required of all third year students in the School of Design.
Problems involving the creative aspects of drawing, graphic arts, painting and sculpture. Type of classwork varies with instructor.

Messrs. Bireline, Cox

DN 331, 332 HISTORY OF DESIGN I, II

3 (3-0) f s

Prerequisite: DN 102

Required of all third year students in the School of Design.
A critical study of the civilization of historic people and their contributions in the field of Design, (from ancient through medieval times), related to architecture, landscape architecture and visual aids.

Messrs. Elliott, Buisson

DN 411, 412 DESCRIPTIVE DRAWING VII, VIII

2 (0-6) f s

Prerequisite: DN 312

Required of all fourth year students in the School of Design.
Continuation, at a more complex level, of work begun in third year.

Mr. Gussow

DN 422, 521 OFFICE PROCEDURE I, II

2 (2-0) s f

Prerequisite: ARC 302

Required of all fourth and fifth year students in the School of Design.
A study of the ethics, organization, and procedures of professional architectural practice; specifications, estimates and building codes.

Mr. Waugh

DN 431, 432 HISTORY OF DESIGN III, IV

3 (3-0) f s

Prerequisite: DN 332

Required of all fourth year students in the School of Design.
A continuation of the course DN 332 from the Renaissance Period through the Age of Reason till the Middle of the XIX Century.

Messrs. Buisson, Clarke

DN 311, 312 DESCRIPTIVE DRAWING IX, X

Prerequisite: DN 412

2 (0-6) f s

Required of all fifth year students in the School of Design
Continuation of third and fourth year work into "thesis" type activities wherein more mature projects may be undertaken.

Mr. Stuart

DN 331 HISTORY OF DESIGN V

Prerequisite: DN 432

3 (3-0) f

Required of all fifth year students in the School of Design
A critical study of the modern life and design in relation to social and cultural conditions, based on the spirit of the XIX and XX Centuries.

Mr. Elliott

DN 341, 342 PHILOSOPHY OF DESIGN I, II

Prerequisite: ARC 402

2 (2-0) f s

Required of all fifth year students in the School of Design
An introduction to aesthetics and the relationships of philosophic thought to design.
Mr. Kamphoefner and Visiting Professors

ECONOMICS

EC 201, 202 ECONOMICS

3 (3-0) f s

Fundamental principles applying to the organization and functioning of our economy.

EC 205 THE ECONOMIC PROCESS

3 (3-0) f s

An analysis of the process and principles by which an economy allocates resources, distributes goods and income and determines rate of growth.

EC 305 BUSINESS ORGANIZATION

3 (3-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school
A survey of business organization, operation, and practices. Special emphasis is given to the forms of business enterprises, principles of management, and the relation of the business unit to the economic system.

EC 312 ACCOUNTING FOR ENGINEERS

3 (3-0) f s

A survey of accounting principles; the analysis and recording of business transactions; financial statements, their construction, use and interpretation.

EC 315 SALESMANSHIP

2 (2-0) f s

An introduction to the principles and techniques of selling from the standpoint of the individual salesman. A course designed for the technical student anticipating entering the field of distribution.

EC 319 MONEY AND BANKING

3 (3-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school.
A study of the role of money in the economic organization; methods of stabilizing the price level; study of the proper organization and functioning of commercial banking and the Federal Reserve System; the problems of monetary standards and credit controls; recent monetary and banking trends are emphasized.

EC 350 ECONOMIC GEOGRAPHY

3 (3-0) s

A study of world resources and industries and their relationship to trade and manufacturing. Distribution of the principal commodities of world commerce. An analysis of the world's important agricultural, industrial and commercial regions.

EC 401, 402 PRINCIPLES OF ACCOUNTING

3 (2-2) f s

Fundamental principles of accounting theory and practice; the analysis and recording of business transactions; explanation and interpretation of the structure, forms and use of financial statements.

EC 407 BUSINESS LAW I

3 (3-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school
A course dealing with elementary legal concepts, contracts, agency, negotiable instruments, sales of personal property, chattel mortgages, partnerships, corporations suretyship and bailments, insurance.

EC 408 BUSINESS LAW II

3 (3-0) f s

Prerequisite: EC 407
Deals with real property, mortgages on urban and farm lands, landlord and tenant, requirements for valid deed, insurance law, wills, suretyship and conditional sales.

EC 409 CONSTRUCTION ACCOUNTING

3 (2-2) f s

Prerequisite: EC 312
An introduction to the accounting problems peculiar to a construction organization. An analysis of the problems of estimating and allocating the costs of materials, labor and overhead to individual jobs.

ECONOMICS

EC 411 MARKETING METHODS

3 (3-0) f

Prerequisite: The basic course in Economics required by the degree-granting school.
Marketing institutions and their functions and agencies; retailing; market analysis; problems in marketing.

EC 412 SALES MANAGEMENT

3 (3-0) s

Prerequisite: EC 411

Elements of sales management with emphasis on planning, operations, policies and programs.

EC 414 TAX ACCOUNTING

3 (2-2) f s

Prerequisite: EC 312 or EC 401

An analysis of the Federal tax laws relating to the individual and business. Determining and reporting income. Payroll taxes and methods of reporting them. Actual practice in the preparation of income tax returns.

EC 415 ADVERTISING

2 (2-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school

Principles of advertising; purposes; preparation of copy; media; advertising campaigns; legislation.

EC 420 CORPORATION FINANCE

3 (3-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school

Financial instruments and capital structure; procuring funds; managing working capital; managing corporate capitalization; financial institutions and their work.

EC 425 INDUSTRIAL MANAGEMENT

3 (3-0) f

Prerequisite: Junior standing; Sophomore standing for furniture manufacturing and management students.

Principles and techniques of modern scientific management; relation of finance, marketing, industrial relations, accounting, and statistics to production; production planning and control; analysis of economic, political and social influences on production.

EC 426 PERSONNEL MANAGEMENT

3 (3-0) s

Prerequisite: Junior standing

The scientific management of manpower, from the viewpoint of the supervisor and the personnel specialist. A study of personnel policy and a review of the scientific techniques regarding the specific problems of employment, training, promotion, transfer, health and safety, employee service, and joint relations.

EC 431 LABOR PROBLEMS

3 (3-0) f s

Prerequisite: Junior standing

An economic approach to labor problems including wages, hours, working conditions, insecurity, substandard workers, minority groups, social security, and public policy relative to these problems.

EC 432 INDUSTRIAL RELATIONS

3 (3-0) f s

Prerequisite: Junior standing

Collective bargaining. Analysis of basic labor law and its interpretation by the courts and governmental agencies. An examination of specific terms of labor contracts and their implications for labor and management. An examination of labor objectives and tactics and management objectives and tactics. Problems of operating under the labor contract.

EC 436 ECONOMIC FLUCTUATIONS

2 (2-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school

An empirical and theoretical analysis of changes in the level of economic activity. These changes will be examined as to causes, extent and timing, and effects.

EC 442 EVOLUTION OF ECONOMIC IDEAS

3 (3-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school

An analysis of the development of economic thought and method during the past two centuries. Economics considered as a cumulative body of knowledge, in a context of emerging technology, changing institutions, pressing new problems, and the growth of science.

EC 444 ECONOMIC SYSTEMS

3 (3-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school

A comparative analysis of the functioning of the major economic systems, with emphasis upon the ways in which the problem of economic calculation is approached in a variety of institutional settings.

EC 461 (HI 461 or PS 461) THE SOVIET UNION

3 (3-0) f

Prerequisite: One semester of Economics and PS 201 or HI 205 or acceptable substitute

An analysis of the structure and function of the major Soviet economic, political and social institutions with special stress on the historical roots and continuity of Russian civilization. The course is presented in three equal phases of approximately five weeks each, covering Russian history, Soviet government and Soviet economy.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

EC 501 INTERMEDIATE ECONOMIC THEORY**3 (3-0) f s**

Prerequisite: The basic course in Economics required by the degree-granting school
 A systematic theoretical treatment of the functioning of a modern economy with special emphasis upon the pricing system.

Messrs. Allen, Shen

EC 502 MONEY, INCOME, AND EMPLOYMENT**3 (3-0) s**

Prerequisite: The basic course in Economics required by the degree-granting school
 A study of the methods and concepts of national income analysis with particular reference to the role of monetary policy in maintaining full employment without inflation.

Messrs. Allen, Olsen

EC 503 ADVANCED ACCOUNTING**3 (2-2) f s**

Prerequisites: The basic course in Economics required by the degree-granting school, and
 EC 401, 402

Problems of asset valuation, such as depreciation, replacements, amortization, etc., as found in all types of business organizations: branch accounting, consolidations, installment selling.

Messrs. Fails, Shulenberger

EC 504, 505 PRINCIPLES OF COST ACCOUNTING**3 (2-2) f s**

Prerequisites: The basic course in Economics required by the degree-granting school, and
 EC 401, 402

Cost finding, materials costs, labor costs, overhead costs, etc., with an introduction to standard cost procedures.

Mr. Shulenberger

EC 510 PUBLIC FINANCE**3 (3-0) f s**

Prerequisite: The basic course in Economics required by the degree-granting school
 A study of fiscal policy and analysis of the fiscal devices of government, including expenditure, taxation, and borrowing.

EC 514 INTERNATIONAL ECONOMICS**3 (3-0) f s**

Prerequisite: The basic course in Economics required by the degree-granting school
 An analysis of international economic relations including trade, investment, and the payments problem, with continuing consideration of policy.

EC 515 INVESTMENTS**3 (3-0) s**

Prerequisite: The basic course in Economics required by the degree-granting school
 Types of investment; investment market; investment analysis; investment channels; investment fluctuations; investment policies and practices.

Mr. Moen

EC 518 PRINCIPLES OF INSURANCE**2 (2-0) f s**

Prerequisite: The basic course in Economics required by the degree-granting school
 Risk as an element of all agricultural and industrial activity; discussion of such risks as can be covered by insurance with the appropriate forms of insurance, e.g., employer's liability, workmen's compensation, fire, life, and other forms.

Mr. Shulenberger

EC 519 MONETARY THEORY**3 (3-0) f s**

Prerequisites EC 319 or EC 502

Prerequisite: The basic course in Economics required by the degree-granting school
 A study of the forces determining the value of money; the role of money in economic growth and in the maintenance of economic stability; and a consideration of monetary policy.

Mr. Olsen

EC 521 OFFICE MANAGEMENT**3 (3-0) f s**

Prerequisite: Open to seniors and graduate students only
 The application of scientific management principles to office problems including: office planning and layout, equipment, filing, correspondence, selection, training and supervision of office employees, promotions and wage increases, office costs and budgets.

Mr. Fails

EC 525 SEMINAR IN SPECIAL ECONOMIC TOPICS**Max 6**

Prerequisite: Graduate standing or consent of the instructor
 Topics presented by a special lecturer. This course will be offered from time to time as distinguished visiting scholars are available.

EC 531 MANAGEMENT OF INDUSTRIAL RELATIONS**3 (3-0) f s**

Prerequisite: The basic course in Economics required by the degree-granting school
 A seminar course designed to round out the technical student's program. Includes a survey of the labor movement organization and structure of unions, labor law and public policy, the union contract, the bargaining process, and current trends and tendencies in the field of collective bargaining.

Messrs. Bartley, Wood

EDUCATION

EC 540 ECONOMIC GROWTH AND DEVELOPMENT

3 (3-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school
An introduction to the theory of economic growth and development, with special application to the presently under-developed areas of the world.

Mr. Olsen

EC 548 ECONOMICS OF WELFARE

3 (3-0) f s

Prerequisite: The basic course in Economics required by the degree-granting school
An analysis of the efficiency of our economy, including resource allocation, rate of growth, degree of stability, and income distribution

EC 550 MATHEMATICAL MODELS IN ECONOMICS

3 (3-0) f s

Prerequisites: The basic course in Economics required by the degree-granting school, MA 202 or 212, and consent of the instructor

An introductory study of economic models emphasizing their formal properties. The theory of individual economic units is presented as a special case of the theory of inductive behavior. Mathematical discussions of the theory of the consumer, the theory of the firm, and welfare economics will show the relevance of such topics as constrained maxima and minima, set theory, partially and simply ordered systems, probability theory, and game theory to economics.

Mr. Harrell

EC 555 INTRODUCTION TO LINEAR PROGRAMMING

3 (3-0) f s

Prerequisites: The basic course in Economics required by the degree-granting school, and consent of the instructor

Recent developments in the theory of production, allocation and organization. Optional combination of integrated productive processes within the firm. Applications in the economics of industry and of agriculture.

Mr. Harrell

COURSES FOR GRADUATES ONLY

EC 601 ADVANCED ECONOMIC THEORY

3 (3-0) f s

Prerequisite: EC 501

A rigorous examination of contemporary economic theory, with special regard to such fields as general equilibrium theory, growth theory and organization theory.

Mr. Hickman

EC 603 HISTORY OF ECONOMIC THOUGHT

3 (3-0) s

Prerequisite: EC 442 or EC 501

A systematic analysis of the development and cumulation of economic thought, designed in part to provide a sharper focus and more adequate perspective for the understanding of contemporary economics.

Messrs. Hickman, Olsen

EC 605 RESEARCH IN ECONOMICS

Arranged

Prerequisite: Graduate standing

Individual research in economics, under staff supervision and direction.

EC 655 SPECIAL TOPICS IN PROGRAMMING

3 (3-0) f s

Prerequisites: The basic course in Economics required by the degree-granting school, MA 202, MA 403, or EC 555 and consent of the instructor.

A lecture and research course devoted to recent literature in programming theory and its applications.

Mr. Harrell

EDUCATION

AGRICULTURAL EDUCATION

See pages 173-174 for ED 101; 102; 201; 313; 411; 412; 413; 430; 554; 558; 563; 568; 616; 617; 618; 621; 664.

INDUSTRIAL ARTS AND INDUSTRIAL EDUCATION

See pages 233-237 for IA 100; 103; 104; 107; 108; 203; 205; 206; 207; 215; 230; 304; 306; 307; 308; 314; 315; 320; 321; 460; 510; 570; 575; 580; ED 100; 422; 440; 444; 482; 483; 516; 521; 525; 527; 528; 552; 595; 610; 614; 619; 624; 627; 630; 635.

INDUSTRIAL AND RURAL RECREATION

See pages 229-233.

GENERAL COURSES

ED 308 VISUAL AIDS**2 (1-2) s**

Methods and techniques of visual instruction; lettering; statistical illustration; chart, graph and poster-making; photography; projector operation, care and use.

Mr. Armstrong

ED 344 SECONDARY EDUCATION**2 (1-2) f s**

An overview of secondary education, including development, problems, services, trends, teaching profession, role of school in the community, purposes and objectives. The development and status of secondary education in North Carolina is taken up.

Mr. Morehead

ED 410 DRIVER EDUCATION**3 (2-2) s**

Course offered during Summer session only

The principles of teaching the basic driving skills, including the new concept of defensive driving, observance and interpretation of motor vehicle laws, adverse driving conditions, handling of accident situations and care of the car.

MATHEMATICS AND SCIENCE EDUCATION

See pages 244-245 for ED 203; 470; 471; 475; 476.

OCCUPATIONAL INFORMATION AND GUIDANCE

See pages 255-256 for ED 420; 424; 524; 530; 531; 532; 590; 631; 633; 641; 651.

PSYCHOLOGY

See pages 266-269.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

ED 501 EDUCATION OF EXCEPTIONAL CHILDREN**3 (2-2) f**

Prerequisite: Six hours in education or psychology

Advanced undergraduates or graduates

Discussion of principles and techniques of teaching the exceptional child with major interest on the mentally handicapped and slow learner. Practice will be given in curriculum instruction for groups of children, individual techniques for dealing with retarded children in the average classroom. Opportunity for individual work with an exceptional child will be provided.

Mr. Corter

ED 502 ANALYSIS OF READING ABILITIES**3 (3-0) f**

Prerequisites: Six hours in education or psychology

A study of tests and techniques in determining specific abilities; a study of reading retardation and factors underlying reading difficulties

Mr. Rust

ED 503 IMPROVEMENT OF READING ABILITIES**3 (3-0) s**

Prerequisite: Six hours in education or psychology

A study of methods used in developing specific reading skills or in overcoming certain reading difficulties; a study of methods used in developing pupil vocabularies and word analysis skills; a study of how to control vocabulary burden of reading material.

Mr. Rust

ED 505 GROUP DYNAMICS IN TEACHING**3 (Summer only)**

Prerequisite: Six hours in education or psychology

A study of group methods in teaching with special reference to role playing, conference techniques and group dynamics in their application to teaching and an understanding of the student's behavior.

Mr. Miller

ED 509 WORKSHOP IN SPECIAL EDUCATION**3-6 (1-4) s**

Prerequisite: Three hours in special education and a teaching certificate

The workshop in special education combines a practicum in special education with work on individual projects in a workshop situation. Wide latitude is given to teachers to work in areas of special interests or need. In addition to usual group meetings, materials are collected in handbook form each year for teachers' use.

Mr. Corter

ED 510 ADVANCED DRIVER EDUCATION**3 (2-2) s**

The study of course content in present day driver education courses: Evaluation of research literature in driver education; a study of existing driver education programs at both secondary and college levels; and evaluation of psychological and educational research in accidents.

ELECTRICAL ENGINEERING

ED 552 INDUSTRIAL ARTS IN THE ELEMENTARY SCHOOL

3 (Summer)

Prerequisites: Twelve credits in education and consent of instructor

This course is organized to help elementary teachers and principals understand how tools and materials and industrial processes may be used to vitalize and supplement the elementary school children's experiences. Practical children's projects along with the building of classroom equipment.

Mr. Hostettler

ED 615 INTRODUCTION TO EDUCATIONAL RESEARCH

3 (3-0) f

Prerequisite: Six hours in education or psychology

An introductory course for students preparing for an advanced degree. The purposes are: to assist the student in understanding the meaning and purpose of educational research and the research approach to problems; to develop students' ability to identify educational problems, and to plan and carry out research to solve these problems; to aid in the preparation of the research report. Special attention is given to tools and methods of research. Consideration is also given to the educator as a consumer of research.

Mr. Morehead

ED 665 SUPERVISING STUDENT TEACHING

3 (3-0) f s

Prerequisites: ED 411, 563, 610 or equivalent

A study of the program of student teaching in teacher education. Special consideration will be given the role of the supervising teacher, including the following areas: Planning for effective student teaching, observation and orientation, school community study, analysis of situation, evaluating student teacher, and coordination with State College.

Graduate Staff

ELECTRICAL ENGINEERING — — — — —

COURSES FOR UNDERGRADUATES

EE 201 ELEMENTARY CIRCUITS AND FIELDS

4 (2-5) f s

Corequisite: MA 201

Required of sophomores in EE

Fundamental laws of electric circuits and magnetic circuits. Problem drill and laboratory exercises.

Staff

EE 202 ELEMENTARY CIRCUITS AND FIELDS

4 (2-5) s

Prerequisite: EE 201, MA 201

Required of sophomores in EE

A continuation of EE 201. Introduction to simple circuit transients and steady-state alternating-current circuit theory. Fundamental laws of magnetic fields and electric fields. Problem drill and laboratory exercises.

Staff

EE 301, 302 INTERMEDIATE CIRCUITS AND FIELDS

4 (2-5) f

3 (2-2) s

Prerequisite: EE 202, PY 202, MA 202

Required of Juniors in EE

An intermediate treatment of lumped-constant alternating-current circuits in the steady state. Single- and three-phase circuits. Discussion of electric and magnetic fields, distributed constants and traveling waves. The theory of transmission lines at power and audio frequencies. Filters and impedance matching. One three-hour laboratory per week is included in the first semester.

Staff

EE 305, 306 ELECTRICAL MACHINERY

4 (2-5) f s

Prerequisites: EE 202 for EE 305; EE 301 for EE 306

Required of Juniors in EE

A classroom and laboratory study of the principles, performance and characteristics of direct current and alternating current machinery.

Staff

EE 310 ILLUMINATION

3 (2-3) f

Prerequisites: EE 301 or EE 320 or EE 331

A classroom and laboratory study of the principles involved in the production and utilization of light from artificial sources; a study of the requirements for good lighting; and design of lighting installations for schools and industry. Two hours recitation and one three-hour laboratory or problem period per week.

Mr. Winkler

EE 320 ELEMENTS OF ELECTRICAL ENGINEERING

4 (3-3) f s

Prerequisites: MA 202, PY 202

Required of seniors in MEA, AGE, MIC, CHE, MIG, IE, CE and NE

Principles, characteristics and operation of electric equipment and systems. Theory and problems in applied electricity; motor characteristics and industrial applications. Three hours of lecture and one three-hour laboratory or recitation per week

Staff

EE 331, 332 PRINCIPLES OF ELECTRICAL ENGINEERING**4 (3-3) f s**

Prerequisites: MA 202, PY 202

Required of seniors in EPY and ME

Basic concepts, electrical power generation and utilization circuit elements, single and poly-phase a.c. circuits, transformers, rotating electrical machines. Fundamentals of Electronics and control circuits. Three hours of lecture and one three-hour recitation or laboratory per week.

Staff

EE 341, 342 INDUSTRIAL ELECTRICITY**4 (3-2) f s**

Prerequisites: PY 211, 212

Required of juniors in Heating and Air Conditioning curriculum.

A study of the basic electric circuits and machinery with emphasis on single phase and three phase power and energy relations, the performance, maintenance and applications of motors and transformers; motor control; rules for wiring as specified by the National Electric Code. (Three hours work lecture and three hours work recitation or laboratory per week.)

Staff

EE 350 ELECTRICAL APPLICATIONS IN WOOD PRODUCTS MANUFACTURING**3 (2-3)**

Prerequisites: PY 211, 212

Required of juniors in Pulp and Paper Technology curriculum

Optional for juniors or seniors in Furniture Manufacturing and Management

A study of electrical power applications in the pulp and paper industries, and in furniture manufacturing. Includes a.c. and d.c. circuits; single phase and polyphase power and energy measurements; d.c. and a.c. motors; and control systems. Two hours recitation and one three-hour laboratory or problem per week.

Staff

COURSES FOR ADVANCED UNDERGRADUATES**EE 411, 412 ELECTRICAL ENGINEERING SENIOR SEMINAR****1 (0-2) f s**

Prerequisite: Senior standing

Required of seniors in Electrical Engineering

Weekly meetings for the delivery and discussion of student papers on topics of current interest in Electrical Engineering.

Staff

EE 414 ELECTRON TUBES**4 (3-3) s**

Prerequisites: EE 301, MA 202

Required of juniors in EE

A study of the fundamentals of electrical conduction in vacuum and gases. Operating characteristics of vacuum and gaseous tubes, mercury arc rectifiers, photoelectric cells, cathode ray oscilloscopes, etc. Introduction to vacuum tube circuit theory. One laboratory period a week illustrates the theory covered during lecture and recitation periods.

Staff

EE 430 ESSENTIALS OF ELECTRICAL ENGINEERING**4-0**

Prerequisites: MA 401, EE 332 or equivalent

Not available to undergraduates in electrical engineering

Essential theory of electric circuits, including electron tubes, solid state devices, transformers and rotating machines as needed to supply the electrical background for instrumentation and control theory. Intended primarily for graduate students who do not have an electrical engineering undergraduate degree.

Mr. Hoadley and Staff

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES**EE 501, 502 ADVANCED ELECTRIC CIRCUITS AND FIELDS****3 (2-2) f s**

Prerequisite: EE 302, MA 401

Required of seniors in EE

A continuation of the study of electric circuits and fields. Consideration of the transient state in electrical circuits, transformation techniques for the solution of problems. Application of classical electric and magnetic field theory to the problems of electrical engineering, using vector analysis.

Mr. Stevenson

EE 510 HIGH VOLTAGE LABORATORY**1 (0-3) f s**

Prerequisites: EE 302, PY 401

A laboratory course of the techniques of producing and handling high voltages. Corona, surface discharge, breakdown and other phenomena are studied. Typical high voltage tests are performed on dielectrics.

EE 511, 512 ELECTRIC COMMUNICATIONS**4 (3-3) f s**

Prerequisites: EE 302, 414

A classroom and laboratory study of the circuits and equipment involved in radio and wire communication: circuit elements, vacuum tube and transistor and oscillators, modulation, detection, antennas and radio propagation. Emphasis is on design and quantitative analysis.

Mr. Barclay

ELECTRICAL ENGINEERING

EE 513, 514 ELECTRIC POWER ENGINEERING

4 (3-3) f s

Prerequisite: EE 302

Long distance transmission of power. Line parameters by the method of geometric mean distances. Circle diagrams, symmetrical components and fault calculations. Elementary concepts of power system stability. Prime movers, bus systems and switchgear. Loads and the selection of motors for various industrial applications. One three-hour laboratory per week accompanies the classroom study.

Messrs. Hoadley, Stevenson

EE 515 INDUSTRIAL ELECTRONICS AND CONTROL

4 (3-3) f

Prerequisites: EE 306, 414

A study, with laboratory tests, of the application of electronic devices to industrial processes and equipment outside of the field of communications. Speed and voltage control; timing devices; electronics heating; air purification; production and quality control; photo electric devices.

Messrs. Goetze, Hoadley

EE 516 FUNDAMENTALS OF SERVOMECHANISMS

4 (3-3) s

Prerequisites: MA 401, and either EE 302 or 332

Dynamics and synthesis of closed-loop control systems using transient and sinusoidal analyses. Applications to electrical, mechanical and chemical systems. One two-hour laboratory or problem period per week to supplement the classroom work.

Messrs. Goetze, Hoadley

EE 518 INSTRUMENTATION AND CONTROL IN NUCLEAR TECHNOLOGY

0-4

Prerequisites: EE 430; or EE 301, EE 305, EE 414; and MA 401

Radiation detectors, pulse amplifiers, pulse shapers, amplitude discriminators, counters, coincidence circuits, reactor kinetics, reactor simulators, automatic control of reactors.

Mr. Hoadley and Staff

COURSES FOR GRADUATES ONLY

EE 605, 606 ELECTRICAL ENGINEERING SEMINAR

1 (1-0) f s

Prerequisite: Graduate standing in EE

A series of papers and conferences participated in by the instructional staff, invited guests and students who are candidates for advanced degrees.

Graduate Staff

EE 611, 612 COMMUNICATION NETWORKS

4 (4-0) f s

Prerequisites: EE 302, 501

Steady state and transient performance of the generalized network. Analysis and synthesis of two-and four-terminal reactive networks. Wave filters and phase equalizers. Networks containing resistances and reactances. Feedback systems, such as feedback amplifiers, regulators and servomechanisms. The study includes both the analysis and the synthesis of such systems, in terms of transient and steady-state response, using mathematical methods based on the theory of the complex variable.

Messrs. Hoadley, Tompkins

EE 615 ELECTROMAGNETIC WAVES

4 (3-3) f

Prerequisite: EE 502

Maxwell's Equations applied to a study of the propagation of energy by electromagnetic waves. Vector and scalar potentials, retarded potentials, reflection and refraction power flow and energy density; plane rectangular and cylindrical wave guides; lines and cavity resonators. Laboratory on microwave techniques and measurements.

Messrs. Barclay, Tompkins

EE 616 ADVANCED RADIO ENGINEERING

4 (3-3) s

Prerequisites: EE 512, 615

Analysis and design of microwave transmitting, receiving and measuring systems. Electronic methods of pulsing, timing, counting, gating and computing with applications to communication, navigation, radar and computer systems. Theory and application of klystrons, magnetrons and traveling-wave tubes. Laboratory emphasizes non-sinusoidal electronic circuitry.

Mr. Barclay

EE 618 RADIATION AND ANTENNAS

4 (3-3) f

Prerequisite: EE 615

Electromagnetic wave theory applied to antennas and antenna rays. Calculation and measurement of directional characteristics and field intensity.

Mr. Barclay

EE 621 VACUUM TUBE DESIGN

3 (3-0) f

Prerequisite: EE 512, 615 and MA 611

An intensive analytic study of the laws of electron emission and motion and the design of vacuum tubes. Poisson's equation and conformal transformations are used to develop design criteria and equations. Analytic and experimental methods for determining potential fields are studied. Construction and high vacuum practice are covered.

Mr. Barclay

EE 622 ELECTRON OPTICS AND TRANSIT TIME EFFECTS

4 (3-3) s

Prerequisite: EE 621

The equivalent noise generator circuit is applied to the various sources of noise in vacuum tubes. Electrostatic and magnetic lens action. Transit time in high frequency tubes and velocity modulated tubes, magnetrons, cathode ray and photoelectric tubes.

Mr. Barclay

EE 631 ADVANCED ALTERNATING-CURRENT MACHINERY

3 (3-0) s

Prerequisite: EE 306

An advanced study of transformers and rotating a-c machines. Design considerations, harmonics, transient behavior, equivalent circuits.

Mr. Hoadley

EE 632 ADVANCED ELECTRICAL MACHINERY

3 (3-0) f

Prerequisite: EE 306

An intensive study of commutator machines, adjustable speed drives, special machines and magnetic amplifier circuits.

Mr. Hoadley

EE 635, 636 DIELECTRIC THEORY AND HIGH VOLTAGE ENGINEERING

3 (3-0) f s

Prerequisite: EE 414

High Voltage measurement methods, theory and experimental investigations of dielectric properties of insulating materials (gases, liquids, solids). Problems involved with technical applications (design of insulators, corona losses of high voltage lines, circuit breaker theory).

EE 637 CIRCUIT ANALYSIS OF POWER SYSTEMS

3 (3-0) s

Prerequisite: EE 514

An advanced treatment of symmetrical components applied to unsymmetrical faults, unsymmetrical systems, and simultaneous faults.

Mr. Stevenson

EE 638 POWER SYSTEM STABILITY

3 (3-0) f

Prerequisite: EE 514

A study of the principal factors affecting stability and of the method of making stability calculations. Illustrations of studies made on actual power systems.

Mr. Stevenson

EE 643 ADVANCED ELECTRICAL MEASUREMENTS

2 (2-0) f

Prerequisites: EE 302, 414

A critical analysis of circuits used in electrical measurements, with special attention to such topics as balance convergence, effects of strays, sensitivity and use of feedback in electronic devices.

Mr. Hoadley

EE 645, 646 ADVANCED ELECTROMAGNETIC THEORY

3 (3-0) f s

Prerequisite: EE 615 or PY 602

A comprehensive study of electricity and magnetism, emphasizing dynamic field theory. Potential theory, boundary-value problems, electrostatics and magnetostatics, transients in continuous systems, electromagnetic theory of light.

Mr. Tompkins

EE 650 ELECTRICAL ENGINEERING RESEARCH

Credits by arrangement

Prerequisites: Graduate standing in EE and approval of adviser

Individual research in the field of Electrical Engineering.

Graduate Advisers

EE 661, 662 SPECIAL STUDIES IN ELECTRICAL ENGINEERING

3 (3-0) f s

Prerequisites: Graduate standing in EE and approval of adviser

This course provides an opportunity for small groups of advanced graduate students to study, under the direction of qualified members of the professional staff, advanced topics in their special fields of interest.

Graduate Staff

— — — — — ENGINEERING

E 100 INTRODUCTION TO ENGINEERING

1 (1-0) f s

Introduces the student to the profession of engineering and the characteristics and requirements of the study of engineering.

Mr. Lampe

E 500 ENGINEERING ANALYSIS

3 (3-0)

Prerequisite: Senior standing and selection for Honors Program in Engineering

This is an engineering "case method" experience, making use of the principles of engineering, physics and mathematics. Professors in Engineering and certain key individuals from industry will work singly with the professor in charge to introduce challenging engineering situations and to stimulate student analysis.

ENGINEERING MECHANICS

COURSES FOR ADVANCED UNDERGRADUATES

EM 311 MECHANICS I (STATICS)

3 (3-0) f s

Prerequisites: PY 201 or 211; MA 201 or 211

Study of the analytical and graphical solution for the resultant and equilibrium of concurrent, parallel and non-concurrent non-parallel force systems under coplanar or non-coplanar conditions. The application of statics to pin connected members, trusses and cables; friction; centroids; and moments of inertia. Shear and bending moment equations and diagrams.

EM 312 MECHANICS II (DYNAMICS)

3 (3-0) f s

Prerequisite: EM 311

The kinematic and kinetic study of motion of particles and rigid bodies; absolute and relative motion; Coriolis Law; methods of force, mass and acceleration; work and energy; impulse and momentum. Variable motion, simple harmonic motion, simple balancing of rotating parts.

EM 321 STRENGTH OF MATERIALS I

3 (3-0) f s

Prerequisite: EM 311

Simple stresses and strains in tension, compression, shear and torsion; external cross shear and bending moments in beams; internal stresses in beam and their distribution throughout the cross section; design of beams; slope and deflection of beams; statically indeterminate reactions of restrained beams; study of stresses at a point by Mohr's circle; column theory; design of axially and eccentrically loaded columns.

EM 341 MECHANICS A (STATICS)

2 (2-0) f s

Prerequisites: PY 201 or 211 and MA 201 or 211

Forces, resultants and equilibrium of concurrent, parallel and non-concurrent non-parallel force systems; statics applied to engineering problems and the solution of stress in simple trusses. Centroids and moments of inertia. This course is a condensation of EM 311 and with less emphasis.

EM 342 MECHANICS B (DYNAMICS)

2 (2-0) f s

Prerequisite: EM 341 or 311

The kinematic and kinetic study of motion of particles and rigid bodies; absolute and relative motion. Methods of force, mass and acceleration; work and energy impulse and momentum. This course is a condensation of EM 312 and with less emphasis.

EM 343 STRENGTH OF MATERIALS A

2 (2-0) f s

Prerequisite: EM 311 or 341

Axial and shear stresses and strains; pure torsion of circular shafts; external shears and moments; the distribution of internal shearing and bending stresses; introduction to deflection theory; column theory; design of axially loaded columns.

EM 430 FLUID MECHANICS

2 (2-0) f s

Prerequisite: EM 312 or 342

Fluid statics, kinematics, Bernoulli equation, momentum, free-surface flow, viscosity, pipe friction, drag on submerged bodies, lift, elastic wave propagation.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

EM 531 HYDRAULIC MACHINERY

2 (2-0) f s

Prerequisite: EM 430

Theory of lift and application to propellers, fans; blade theory including generalized Bernoulli equation, angular impulse, and angular momentum; forced and free vortex; impulse, reaction, and propeller turbines; positive displacement pumps, centrifugal pumps; propagation in pipes and surge tanks; fluid couplings and torque converters.

EM 551 ADVANCED STRENGTH OF MATERIALS

3 (3-0) f s

Prerequisite: EM 321

Stresses and strains at a point; rosette analysis; stress theories; stress concentration and fatigue; plasticity; inelastic, composite and curved beams; prestress; energy methods; shear deflections; buckling problems and column design; and membrane stresses in shells.

EM 554 VIBRATION PROBLEMS

3 (3-0) f s

Prerequisites: EM 312 or 342; EM 321 or 343; MA 401

Free vibrations without damping; natural frequency; forced vibrations without damping; balancing of rotating and reciprocating machinery; free vibrations with damping; forced vibrations with damping; vibration of systems with several degrees of freedom; shock and sound isolation; application of isolators.

EM 556 ADVANCED MECHANICS

2 (2-0) f s

Prerequisite: EM 312

Virtual work; stability; balancing; elastic impact and waves; governors; LaGrangian equations of motion; three-dimensional dynamics of rigid body gyroscopes derivation from Kepler's laws of Newton's law of gravitation.

COURSES FOR GRADUATES ONLY

EM 601 APPLIED ANALYSIS IN STRENGTH OF MATERIALS**3 (3-0) f s**

Prerequisites: EM 551; MA 401

Advanced problems by energy methods. Difficult internal stress problems. Stresses in thin-webbed beams; stresses in square and curved knees of rigid frames; torsion in rolled profiles; design of beams for bending and torsion; equilibrium and compatibility in two dimensions; Airy's stress function; pure bending of plates; the plate equation; transverse and middle plane loads on plates. Beams on elastic foundations.

EM 602 THEORETICAL AND APPLIED ELASTICITY**3 (3-0) f s**

Prerequisites: EM 321; MA 401

Buckling by torsion and flexure; lateral instability of beams and beam-columns; tapered and built-up columns; local failures; the four-moment theorem; stresses in circular and rectangular plates; stress concentrations. In the above topics, theory is developed and the resulting equations solved by classical or numerical methods. Results are compared with leading design specifications.

EM 605 RESEARCH IN STRENGTH OF MATERIALS**3 (3-0) f s**

Special problems and investigations.

EM 606 RESEARCH IN MECHANICAL VIBRATIONS**3 (3-0) f s**

Special problems in investigations.

EM 607 RESEARCH IN FLUID MECHANICS**3 (3-0) f s**

Special problems in investigations.

EM 608 ADVANCED FLUID MECHANICS**2 (2-0) f s**

Prerequisite: EM 430

Potential motion; vortex theory; Navier-Stokes equations; theories of turbulence; theory of boundary layer; boundary separation; unsteady flow vibrations of fluids.

EM 610 ENGINEERING MECHANICS SEMINAR**1 (1-0) f s**

Reports, discussions and preparation of papers.

ENGLISH**FRESHMAN ENGLISH****ENG 111, 112 COMPOSITION (BASIC COMMUNICATIONS SKILLS)****3 (3-0) f s**

Required of all freshmen

Intensive practice in composition, with review in grammar and usage; reading and analysis of basic types of communication, with primary emphasis on comprehension; directed supplementary reading; oral and written reports; conferences.

WRITING**ENG 211 BUSINESS COMMUNICATIONS****3 (3-0) f s**

Prerequisite: ENG 112

Practical application of the principles of composition to effective business communications, including basic types of correspondence and reports. Special attention will be paid to vocabulary building, and work will be given in oral business communications.

ENG 215 PRINCIPLES OF NEWS AND ARTICLE WRITING**3 (3-0) f s**

Prerequisite: ENG 112

Introduction to the writing of simple news articles; class criticism of non-technical newspaper and magazine articles.

ENG 216 ADVANCED ARTICLE WRITING**3 (3-0) s**

Prerequisites: ENG 112 and 215 or equivalent

A continuation of ENG 215, with intensive practice in writing and criticizing nontechnical articles.

ENG 222 ADVANCED COMPOSITION (CREATIVE WRITING)**3 (3-0) s**

Prerequisite: ENG 112

A course in creative writing especially designed for students who have demonstrated ability; emphasis on short prose fiction.

ENG 223 VOCABULARY BUILDING**3 (3-0) s**

Prerequisite: ENG 112

A system of increasing the student's supply of useful words as found in the best modern English prose.

ENG 321 SCIENTIFIC WRITING**3 (3-0) f s**

Prerequisite: ENG 112

Intensive practice in writing technical and scientific reports, articles for journals, and business letters relating to technical reports.

ENG 324 ADVANCED GRAMMAR**3 (3-0) s**

An intensive study of English grammar with attention to the historical development of the language and with special emphasis on contemporary usage.

ENGLISH

SPEECH

ENG 231 BASIC SPEAKING SKILLS

3 (3-0) f s

Prerequisite: ENG 112

Training in the fundamentals of public speaking; supplementary training in some aspects of group discussion (panel, forum, symposium or committee) and in the techniques of good listening.

ENG 332 ARGUMENTATION AND PERSUASION

3 (3-0) f

Prerequisite: ENG 231 or equivalent

Analysis, brief-drawing and evidence, and methods of proof and refutation; fundamentals of conviction; naturalness and forcefulness, extempore speeches, debates and discussions.

ENG 333 PUBLIC ADDRESS AND EXTEMPORANEOUS SPEAKING

3 (3-0) s

Prerequisite: ENG 231 or equivalent

Public speaking for special occasions, including speech of introduction, committee-room speech, after-dinner speech, speech at professional convention, political speech, formal sales talk.

ENG 334 ORAL READING

3 (3-0) s

Prerequisites: ENG 112 and 231, or approval of the department

Training in the analysis and presentation of printed materials, technical and semi-technical, for platform, radio, and television. Emotional reactions to add color and interest; expressive body and voice; correction of faulty habits.

ENG 336 PARLIAMENTARY PRACTICE

3 (3-0) f s

Prerequisite: ENG 112

(Not to be counted toward the fulfillment of any requirement in languages, humanities or social sciences without specific authorization.)

Rules and customs of assemblies, including organization, motions; participation in and conduct of meetings; parliamentary strategy.

ENG 337 GROUP DISCUSSION

3 (3-0) f

Prerequisites: ENG 112 and 231, or approval of the department

The theory and practice of leading and taking part in such groups as panels, forums, symposiums, conferences and committees. Oral and written assignments. Frequent recordings.

LITERATURE

Note: ENG 111 and 112 are prerequisites to all courses in literature

ENG 205 READING FOR DISCOVERY

3 (3-0) f s

A study of selected poems, plays, and short stories drawn from English, American, and European literature with emphasis on the great themes of literature and on the approach of the creative artist to basic ideas in Western culture.

ENG 361 BACKGROUNDS OF ENGLISH CIVILIZATION (I)

3 (3-0) f

A reading course in English literature from the Anglo-Saxon invasions to the Romantic period, with an emphasis on the contributions of English life and thought to Western Civilization.

ENG 362 BACKGROUNDS OF ENGLISH CIVILIZATION (II)

3 (3-0) s

English literature from the Romantic period to the present day. This course may be taken either as a continuation of ENG 361 or as an independent course.

ENG 365 THE AMERICAN MIND (I)

3 (3-0) f

The development of American thought and civilization as reflected in American literature from the colonial settlements through the New England revival of the nineteenth century.

ENG 366 THE AMERICAN MIND (II)

3 (3-0) s

The background of contemporary American literature and thought, from Mark Twain to Hemingway and Faulkner. This course may be taken either as a continuation of ENG 365 or as an independent course.

ENG 375 SOUTHERN WRITERS

3 (3-0) s

An introduction to Southern culture as revealed in poetry and short fiction from Poe to the present day. Readings in the Southern essay dealing with social, political, and literary problems.

ENG 382 SHORT PROSE FICTION

3 (3-0) f

The study of selected short stories by the most representative of contemporary British and American writers.

ENG 385 SHAKESPEARE

3 (3-0) s

A study of the principal plays with emphasis on reading Shakespeare for enjoyment.

ENG 396 LITERATURE OF THE WESTERN WORLD (I)

3 (3-0) f

Readings from selected great books from the Homeric period of Greek literature to the Renaissance in Europe. Emphasis on the contributions of this literature to modern thought.

ENG 397 LITERATURE OF THE WESTERN WORLD (II) 3 (3-0) s
Readings from selected great books from the Renaissance to the twentieth century with emphasis on literary appreciation and on the development of important concepts underlying contemporary life in the Western World. This course may be taken either as a continuation of ENG 396 or as an independent course.

ENG 398 CONTEMPORARY LITERATURE 3 (3-0) s
A study of selected examples of American, British, and Continental writing from 1915 to the present day with reference to changing literary forms and themes.

ENTOMOLOGY

COURSES FOR UNDERGRADUATES

ENT 301 INTRODUCTION TO FOREST INSECTS 3 (2-2) f
Prerequisite: School of Forestry
An introductory course covering the fundamentals of classification, development, habits and control of forest insects.

Mr. Brett

ENT 312 ECONOMIC ENTOMOLOGY 3 (2-2) s
Prerequisite: ZO 101
A basic course, covering the fundamentals of insect classification, development, food habits and controls.

Mr. Brett

ENT 322 BEEKEEPING 3 (1-4) s
Prerequisite: Consent of Instructor
A basic course dealing with the place of the honeybee in our agricultural economy; the colony and its components; management; manipulation; honey production, care and marketing.

Mr. Stephen

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

ENT 501, 502 INSECT MORPHOLOGY 3 (1-4) f s
Prerequisite: ENT 301 or 312
Covers general morphology, external and internal, of the insects and their relatives. ENT 501 will deal primarily with external morphology and ENT 502 with internal morphology.
(Given on odd years)

Mr. Young

ENT 511 SYSTEMATIC ENTOMOLOGY 3 (1-4) f
Prerequisite: ENT 301 or 312
A somewhat detailed survey of the orders and families of insects, designed to acquaint the student with these groups and develop in the student some ability in the use of keys, descriptions, etc.
(Given on even years)

Mr. Young

ENT 522 ENTOMOLOGICAL TECHNIQUE 3 (1-4) s
Prerequisite: ENT 301 or 312
A laboratory course designed to acquaint the student with the various methods and techniques commonly employed in entomology, including a brief introduction to drawing and the photographic process.
(Given on even years)

Mr. Young

ENT 531 INSECT ECOLOGY AND BEHAVIOR 3 (3-0) f
Prerequisite: ENT 301 or 312
The influence of environmental factors on insect development, distribution and behavior.
(Given on even years)

Mr. Brett

ENT 541, 542 IMMATURE INSECTS 2 (1-2) s
Prerequisite: ENT 511 or permission of instructor
541 is a study of the characteristics of the immature forms of the order and principal families of insects. 542 is a detailed study of the immature forms of some special group of insects of the students' own choosing.
(Given on even years)

Mr. Rabb

ENT 551, 552 APPLIED ENTOMOLOGY 3 (2-2) f s
Prerequisite: ENT 301 or 312
An advanced course in which the principles of applied entomology are studied in respect to the major economic insect pests. Methods of determining and examining insect damage, the economic importance of insects and the chief economic pests of man, food and fiber are studied as well as laws and regulations pertaining to insects and insecticides.
(Given on odd years)

Mr. Kulash

ENTOMOLOGY

ENT 561 LITERATURE AND HISTORY OF ENTOMOLOGY

3 (3-0) f

Prerequisite: ENT 301 or 312

A general course intended to acquaint the student with literature problems of the scientist, mechanics of the library and book classification, bibliographies of the zoological sciences, abstract journals, forms of bibliographies, forms of literature, preparation of scientific paper; taxonomic indexes and literature (with a historical background) and history of the development of zoological science from ancient to modern times with emphasis on entomology.

(Given on odd years)

Mr. Brett

ENT 571 FOREST ENTOMOLOGY

3 (2-2) f

Prerequisites: ENT 301 or 312

A study of methods of identification of forest pests, the factors governing their abundance, habits and control.

Mr. Kulash

ENT 582 (ZO 592) MEDICAL ENTOMOLOGY (Parasitology II)

3 (2-3) s

Prerequisite: ENT 301 or 312

A study of the morphology, biology and control of the parasitic arthropods of man, domestic and wild animals.

(Given on odd years)

Mr. Harkema

ENT 590 SPECIAL PROBLEMS

Credits by arrangements

Prerequisites: Graduate standing and consent of the instructor

Original research on special problems in entomology not related to a thesis problem, but designed to provide experience and training in research.

Staff

COURSES FOR GRADUATES ONLY

ENT 601, 602 PRINCIPLES OF TAXONOMY

3 (2-2) f

Prerequisite: ENT 511

3 (1-4) s

A course introducing the methods and tools used in animal taxonomy, designed to promote a better understanding of taxonomic literature and provide a foundation for taxonomic research.

(Given on even years)

Mr. Young

ENT 611 INSECT PHYSIOLOGY

4 (3-2) f

Prerequisite: ENT 312, 502, CH 451 or equivalent

The course deals with the aspects of animal physiology related to insects. The functions of the various insect organs are discussed and how these systems are disrupted by economic poisons. Laboratory work includes the use of standard physiological apparatus with emphasis on methods rather than obtaining results.

(Given on odd years)

Mr. Gast

ENT 621 INSECT TOXICOLOGY

4 (3-2) f

Prerequisite: ENT 312, CH 426 or equivalent

The course deals with chemical and physical characteristics of insecticides and formulations and their effects on biological systems. Modes of action and mammalian toxicities are also discussed. Laboratory work involves insect culture work, formulating insecticides and evaluating the effectiveness of various materials.

(Given on even years)

Mr. Gast

ENT 632 ADVANCED SYSTEMATIC ENTOMOLOGY

3 (0-6) s

Prerequisite: ENT 511

A detailed study of some special insect group of the student's own choosing.

Mr. Young

ENT 680 SEMINAR

1 1

Prerequisite: Graduate standing in Entomology or closely allied fields

Discussion of entomological topics selected and assigned by Seminar Chairman.

Graduate Staff

ENT 690 RESEARCH

Credits by arrangement

Prerequisite: Graduate standing in Entomology or closely allied fields

Original research in connection with thesis problem in entomology.

Graduate Staff

EXPERIMENTAL STATISTICS

COURSES FOR UNDERGRADUATES

ST 302 STATISTICAL LABORATORY

2 (1-2) s

The use of conventional IBM punch card machines with special emphasis on gathering data for punch cards, coding, designing card fields and the operation of the punch, verifier, sorter, collator, tabulator and 602A calculating punch. Complete wiring techniques on the collator, tabulator and 602A calculating punch will be emphasized. Programming of large scale computations found in statistics on the conventional IBM equipment along with a survey of the methods used for programming on the card program calculator (CPC) will be given.

Mr. Verlinden

ST 311 INTRODUCTION TO STATISTICS

3 (2-2) f s

This course will relate general statistical concept to everyday life and will emphasize giving perspective to these concepts in place of developing skill. Quantitative descriptions of populations, sampling ideas, techniques of making inference about populations from samples and the uncertainties involved in such inferences. Formulation and testing of hypotheses, elementary and basic statistical techniques.

Mr. Monroe

ST 361 INTRODUCTION TO STATISTICS FOR ENGINEERS, I

3 (2-2) f s

Prerequisite: College Algebra

Survey of statistical techniques useful to engineers and physical scientists. Includes elementary probability, frequency distributions, estimation of means and standard deviations, sampling variation, control charts, elementary least squares curve fitting, Chi-square tests, analysis of variance, elementary design of experiments.

Mr. Hader

ST 362 INTRODUCTION TO STATISTICS FOR ENGINEERS, II

3 (2-2) f s

Prerequisite: ST 361

Continuation of ST 361. Additional and more advanced statistical methodology for engineers and physical scientists. Includes least squares method for fitting polynomials and multiple regression; principles of sampling finite populations; stratified, systematic and two stage sampling; sampling acceptance inspection; introduction to analysis of variance and design of experiments.

Mr. Hader

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

ST 501, 502 BASIC STATISTICAL ANALYSIS

4 (3-2) f s

Prerequisites: College Algebra and ST 311 or 361 and permission of Department

Description of classification and scaled data; sampling from normal, uniform, binomial and multimodal populations; empirical distributions of various measures of location, dispersion, correlation, regression; significance tests, confidence intervals; collection and analysis of data; surveys, regression, experimental designs, factorial data, variance components, nonparametric methods, sequential analysis. Intended primarily as a parallel course to ST 521-522, to be taken by Statistics majors or Ph.D. minors but not intended as a service course for other departments.

Graduate Staff

ST 511 EXPERIMENTAL STATISTICS FOR BIOLOGICAL SCIENCES, I

4 (3-2) f

Prerequisite: ST 311 or graduate standing

Basic concepts of statistical models and use of samples, variation and statistical measures, distributions, tests of significance, analysis of variance and elementary experimental design, regression and correlation, chi-square.

Mr. Robinson

ST 512 EXPERIMENTAL STATISTICS FOR BIOLOGICAL SCIENCES, II

3 (3-0) s

Prerequisite: ST 511

Covariance, multiple regression, factorial experiments, individual degrees of freedom, incomplete block designs, experiments repeated over space and time.

Mr. Mason

ST 513 EXPERIMENTAL STATISTICS FOR SOCIAL SCIENCES, I

4 (3-2) f

Prerequisite: St 311 or graduate standing

Basic concepts in collection and analysis of data. Variability of sample data, distributions, confidence limits, chi-square, "t"-test, analysis of variance, regression, correlation, analytic and descriptive surveys, experimental designs, index numbers.

Mr. McVay

EXPERIMENTAL STATISTICS

ST 514 EXPERIMENTAL STATISTICS FOR SOCIAL SCIENCES, II

3 (3-0) s

Prerequisite: 513

Extension of basic concepts of experimental statistics to social surveys and experiments. Sampling from finite populations; sampling systems, unrestricted, stratified and multistage; random and systematic selection with varying probabilities; methods of estimation; analysis of variance with multiple classification; covariance; multiple regression; polynomials.

Mr. Finkner

ST 515, 516 EXPERIMENTAL STATISTICS FOR ENGINEERS

3 (3-0) f
or 4 (3-2) f
3 (3-0) s

Prerequisite: ST 361 or graduate standing

General statistical concepts and techniques useful to research workers in engineering, textiles, wood technology, etc. Probability, distributions, measurement of precision, simple and multiple regression, tests of significance, analysis of variance and covariance, enumeration data, sensitivity data, life testing experiments and experimental design.

One credit optional laboratory available first term only.

Mr. Hader

ST 521, 522 BASIC STATISTICAL THEORY

4 (3-2) f s

Prerequisites: ST 311 or graduate standing and undergraduate calculus

Probability, frequency distributions and moments; sampling distributions; introductory theory of point and interval estimation; parametric and non-parametric tests of hypotheses; theory of least squares; multiple regression, analysis of variance and covariance, variance components.

This course contains the theory needed in all advanced courses in statistical analysis and some of the fundamentals for advanced theory courses.

Graduate Staff

ST 591 SPECIAL PROBLEMS

1-3 credits by arrangement f s

Development of techniques for specialized cases, particularly in connection with thesis and practical consulting problems.

Graduate Staff

COURSES FOR GRADUATES ONLY

ST 611, 612 INTERMEDIATE STATISTICAL THEORY

3 (3-0) f s

Prerequisites: ST 522, Advanced Calculus and Matrix Theory

This course will provide the additional theory, above that of ST 521-522, needed for advanced theory courses. Many of the topics of ST 521-522 will be developed more rigorously, and more attention will be paid to mathematical aspects. Advanced probability theory; central limit theorem, law of large numbers, bivariate normal distributions, convergence theorems. Theory of estimation; method of maximum likelihood, efficient estimates, simultaneous confidence regions; general theory of tests of hypotheses, general linear hypothesis, sequential tests of hypotheses, distribution-free methods.

Mr. Williams

ST 621 STATISTICS IN ANIMAL SCIENCE

3 (3-0) f

Prerequisite: ST 502 or ST 512

Sources and magnitudes of errors in experiments with animals, experimental designs and methods of analysis adapted to specific types of animal research, relative efficiency of alternate designs, amount of data required for specified accuracy, student reports on selected topics.

(Offered fall of 1959-60 and alternate years)

Mr. Lucas

ST 623 STATISTICS IN PLANT SCIENCE

3 (3-0) f

Prerequisite: ST 502 or 512

Principles and techniques of planning, establishing and executing field and greenhouse experiments. Size, shape and orientation of plots; border effects; selection of experimental material; estimation of size of experiments for specified accuracy; scoring and subjective tests; subsampling plots and yields for laboratory analysis.

Mr. Mason

ST 626 STATISTICAL CONCEPTS IN GENETICS

3 (3-0) s

Prerequisites: GN 512, and ST 502 or 512 unless taken concurrently

Factors bearing on rates of change in population means and variances, with special reference to cultivated plants and domestic animals; selection, inbreeding, magnitude and nature of genotypic and non-genotypic variability; experimental and statistical approaches in the analysis of quantitative inheritance.

Mr. Cockerham

ST 631 THEORY OF SAMPLING APPLIED TO SURVEY DESIGN

3 (3-0) f

Prerequisite: ST 502 or 512 or 514 or 516

Basic theory of sampling from a finite population. Confidence limits and estimation of optimum sample size, comparison of different sample designs, methods and probabilities for selection and methods of estimation, choice of a sampling unit, double sampling, matched samples.

Mr. Finkner

EXPERIMENTAL STATISTICS

ST 641 (RS 641) STATISTICS IN SOCIOLOGY

Prerequisite: ST 513

The application of statistical methods in sociological research. Emphasis on selecting appropriate models, instruments and techniques for the more frequently encountered problems and forms of data.

3 (3-0) f

Mr. Hamilton

ST 651 (AGC 651) ECONOMETRIC METHODS, I

Prerequisites: ST 514, 521, AGC 641 and 642

Decision making under uncertainty, stochastic elements in economic theories, problems of model construction, special techniques for analyzing simultaneous economic relations.

3 (3-0) s

Graduate Staff

ST 652 (AGC 652) ECONOMETRIC METHODS, II

Prerequisites: ST 513, 522, AGC 641 or 642

Basic concepts of estimation and tests of significance as applied to economic data. Empirical sampling methods, non-parametric methods, sequential testing; extension of least squares methods to research in economics, production surfaces; special topics in variance components and mixed models; use of experimental designs in economic research; elements of multivariate analysis; techniques for analysis of time series.

3 (3-0) f

Mr. Anderson

ST 661, 662 APPLIED MULTIVARIATE ANALYSIS

Prerequisites: ST 502 or 514 (Also analytical geometry and elementary properties of determinants)

The general multivariate model for experimental work; relations between multiple regression, analysis of variance and multivariate analysis; factor analysis; the generalized variance; the generalized Student ratio; intra-class correlations; testing compound symmetry between two sample covariance matrices; scale analysis; canonical correlation, testing for the rank of a correlation matrix.

3 (3-0) f s

Mr. Nicholson

ST 663 SPECIAL PROBLEMS IN MULTIVARIATE ANALYSIS

Prerequisite: ST 661

A seminar course devoted to special problems in applied multivariate analysis, particularly designed for advancing the use of these methods in specific research problems.

3 (3-0) f

Graduate Staff

ST 664 PSYCHOLOGICAL ASPECTS OF FACTOR ANALYSIS

Prerequisite: ST 661

History of factor analysis, theory of two-factors, fictitious factors, hierarchical order, need of group factors, the centroid method, communalities, common factor space, estimation of factors, orthogonal and oblique factors, the problem of rotation, simple structure, second order factors.

3 (3-0) s

Graduate Staff

ST 671 ADVANCED STATISTICAL ANALYSIS

Prerequisites: ST 502 or 512, ST 522

General computational methods for linear regression, non-orthogonal data, carryover effects, orthogonal polynomials, response surfaces, non-linear systems, variance components for orthogonal and non-orthogonal data.

3 (3-0) f

Mr. Anderson

ST 672 SPECIAL ADVANCED TOPICS IN STATISTICAL ANALYSIS

Prerequisite: ST 671

Regression analysis with errors in both variables, transformations, enumeration data, discriminant functions, heterogeneous errors, non-parametric analysis.

3 (3-0) s

Mr. Monroe

ST 674 ADVANCED TOPICS IN CONSTRUCTION AND ANALYSIS OF EXPERIMENTAL DESIGNS

Prerequisites: ST 502 or 512 and ST 522

Inter-block analysis of incomplete blocks designs, partially balanced designs, confounding, data collected at several places and times, multiple factor designs, change-over trials, analysis of groups of means.

3 (3-0) s

Miss Cox

ST 681 SEMINAR

A maximum of three credits is allowed toward the master's degree, but any number toward the doctorate.

1 (1-0) f s

Graduate Staff

ST 691 RESEARCH

A maximum of nine credits is allowed toward the master's degree; no limitation on credits in doctorate programs.

Credits by arrangement f s

Graduate Staff

FIELD CROPS

COURSES FOR UNDERGRADUATES

FC 211 FIELD CROPS I

3 (2-2) f s

Prerequisite: BO 102

Discussion of fundamental principles underlying crop production. The application of these principles to the major and minor field crops. The elements of plant identification, crop grading and judging.

Mr. Lewis

FC 311 FIELD CROPS II

3 (2-2) f

Prerequisites: FC 211 and SOI 200

Specific problems in field crop production other than forage crops. Discussion of those crops in farm rotations brings together all the major aspects of crop production for different climatic areas.

Mr. Lewis

FC 312 PASTURES AND FORAGE CROPS

3 (3-0) s

Prerequisites: FC 211 and SOI 200

A study of the production and preservation of the principal forage crops. Special attention is given to the development and maintenance of pastures.

Mr. Chamblee

FC 412 ADVANCED PASTURES AND FORAGE CROPS

2 (2-0) s

Prerequisite: FC 312

Pasture species and management (cultural treatment) from an international viewpoint, and the inter-relationship of grazing animals on pasture development and management will be emphasized. Natural grassland areas and the place of special plant species will be considered.

Mr. Gilbert

FC 413 PLANT BREEDING

3 (3-0) f

Prerequisite: GN 411

The application of genetic principles to the improvement of economic plants, including discussions of the methods employed in the development and the perpetuation of desirable clones, varieties and hybrids.

Mr. Harvey

FC 414 WEEDS AND THEIR CONTROL

3 (2-2) s

Prerequisites: FC 211; CH 203 or equivalent

Principles involved in cultural and chemical weed control. Discussions on chemistry of herbicides and the effects of the chemicals on the plant. Identification of common weeds and their seeds is given.

Mr. Klingman

COURSES FOR ADVANCED UNDERGRADUATES AND GRADUATES

FC 511 TOBACCO TECHNOLOGY

2 (2-0) f

Prerequisites: FC 311, BO 421 or equivalent

A study of special problems concerned with the tobacco crop. The latest research problems and findings dealing with this important cash crop will be discussed.

Mr. Jones

FC 521 SPECIAL PROBLEMS

Credits by arrangement

Prerequisite: Students admitted only with consent of instructor

Special problems in various phases in Field Crops. Problems may be selected or will be assigned. Emphasis will be placed on review of recent and current research.

Graduate Staff

FC 541 PLANT BREEDING METHODS

3 (3-0) f

Prerequisites: GN 512; ST 511 recommended

An advanced study of methods of plant breeding as related to principles and concepts of inheritance.

Messrs. Haynes, Mann

FC 542 (GN 542 or HRT 542) PLANT BREEDING FIELD PROCEDURES

2 (0-4)

(in Summer Sessions)

Prerequisite: FC 541 or GN 541 or HRT 541

A laboratory and field study of the application of the various plant breeding techniques and methods used in the improvement of economic plants.

Messrs. Haynes, Mann

COURSES FOR GRADUATES ONLY*

FC 611 FORAGE CROP ECOLOGY

2 (2-0) s

Prerequisites: FC 412; BO 441

A study of the effect of environmental factors on the growth of forage crops. Attention will be given to methods of research in forage ecology.

Mr. Chamblee

FC 612 SPECIAL TOPICS IN WEED CONTROL

2 (2-0) s

Prerequisites or corequisites: BO 403, 532, FC 414

Detailed examination of current concepts in selected fields of weed control. The chemistry, physiology, ecology, taxonomy, microbiology, equipment and techniques used in weed control research will be discussed.

Graduate Staff

FC 631 SEMINAR

1 (1-0) f s

Prerequisite: Graduate standing

Scientific articles, progress reports in research, and special problems of interest to agronomists reviewed and discussed.

A maximum of two credits is allowed toward the Master's degree.

Graduate Staff

FC 641 RESEARCH

Credits by Arrangement

Prerequisite: Graduate standing

A maximum of six credits is allowed toward the Master's degree.

Graduate Staff

FORESTRY

COURSES FOR UNDERGRADUATES

FOR 101, 102 INTRODUCTION TO FORESTRY

2 (1-3) f s

The profession of Forestry, its scope and opportunities; conservation of natural resources; forestry field practice.

Mr. Prestor

FOR 201 WOOD STRUCTURE AND PROPERTIES I

3 (1-4) f

Identification, structure, properties and uses of woods of economic importance in the United States; identification by means of the hand lens is especially emphasized.

Mr. Slocum

FOR 202 WOOD STRUCTURE AND PROPERTIES II

2 (0-6) s

Continuation of FOR 201 Microscopic identification and techniques are emphasized.

Mr. Slocum

FOR s204 SILVICULTURE

2 credits

Sophomore Summer Camp

Growth and development of forest stands, reproduction counts, type of mapping, thinning and weeding; establishment and measurement of sample plots.

Mr. Miller

FOR s214 DENDROLOGY

2 credits

Sophomore Summer Camp

Identification and study of trees in Piedmont and mountain sections of North Carolina.

Mr. Slocum

FOR s224 FOREST MAPPING

2 credits

Sophomore Summer Camp

Field problems in forest mapping, including boundary location and type mapping.

Mr. Bryant

FOR s264 PROTECTION AND UTILIZATION

2 credits

Sophomore Summer Camp

Prevention, suppression and suppression of forest fires, fire behavior.

Mr. Bryant

FOR s274 MENSURATION

2 credits

Prerequisite: CE 217

Sophomore Summer Camp

Collection of field data for stand and yield tables, stem analysis and timber surveys.

Mr. Slocum

* Students are to consult the instructor before registration.

FORESTRY

FOR 303 WOOD-MOISTURE RELATIONS

3 (2-2) s

Shrinking and swelling characteristics of wood; air seasoning; dry kiln construction; kiln operation; schedules and conditioning; lumber storage and moisture control during manufacture; dimensional stabilization methods, processes, equipment and materials.

Mr. Carter

FOR 311 PRINCIPLES OF FARM FORESTRY

2 (1-3) f

The theory and practice of forestry with special reference to the handling of farm woodlands and the utilization of their products; the place of forestry in farm management and the agricultural economy.

Mr. Bryant

FOR 321, 322 PULP AND PAPER TECHNOLOGY

3 (3-0) f s

Brief survey of the physical and chemical characteristics of wood and cellulose. Chemistry and technology of the major mechanical, chemical and semi-chemical processes employed in the manufacture of pulp and paper.

Mr. Hitchings

FOR 361 SILVICS

3 (3-0) s

Site, soil and other environmental factors in relation to the establishment, growth and development of seedlings, trees and timber stands; the influence of forest vegetation on site development, ground water and micro-climate.

Mr. Maki

FOR 372 MENSURATION

3 (2-2) f

Prerequisite: FOR s274

The measurement of timber, both standing and felled; log rules, form factors, stem analysis and growth; methods of making volume, growth and stand tables; increment and yield studies; development of stand and yield tables from field data.

Mr. Slocum

FOR 401 WOOD PRESERVATION

2 (1-3) s

Factors causing wood deterioration; preservative materials and treatments; wood by-products from mill and forest waste.

Mr. Carter

FOR 402 FOUNDATIONS OF FOREST MANAGEMENT

2 (2-0) f

Prerequisites: FOR s274 or FOR 311

The integration of silviculture, forest measurements and economics in the management of woodland areas. (Not open to students majoring in forest management.)

Mr. Bryant

FOR 403 PAPER TECHNOLOGY LABORATORY

3 (0-6) s

(First 8 weeks)

Development of various types of paper finishes with particular attention to stock preparation, sizing, filling and coloring. The finished products are tested physically and chemically and evaluated from the standpoint of quality and in comparison with the commercial products they are intended to duplicate.

Mr. Hitchings

FOR 404 MANAGEMENT PLANS

3 (1-6) s

Senior Camp

Application of management, logging, silvicultural and utilization practices on assigned areas. Each student must make a forest survey of an individual area and submit a record.

Staff

FOR 405 FOREST INVENTORY

2 (0-6) s

Senior Camp

Practical field work in timber estimating and compilation of field data.

Mr. Bryant

FOR 406 FOREST INDUSTRIES

2 (0-6) s

Senior Camp

A field study of logging, milling and manufacturing with reports based on inspection trips.

Staff

FOR 407 FIELD SILVICULTURE

2 (0-6) s

Senior Camp

Prerequisite: FOR 361

Studies of forest communities; dendrology of the coastal section of North Carolina: silviculture practices.

Mr. Miller

- FOR 411 PULP AND PAPER MILL EQUIPMENT** 3 (3-0) f
Principles of operation, construction and design of process equipment employed in the pulp and paper industry.
Mr. Cook
- FOR 412 PULP AND PAPER MILL EQUIPMENT** 2 (1-3) s
Continuation of FOR 411
Mr. Cook
- FOR 413 PAPER TESTING LABORATORY** 2 (0-12) f
(First 8 weeks)
Physical, chemical, and microscopical examination of experimental and commercial papers and evaluation of the results in terms of the utility of the product tested.
Mr. Cook
- FOR 422 FOREST PRODUCTS** 3 (3-0) f
Prerequisites: FOR 201, CH 203 or 426
The source and method of obtaining derived and manufactured forest products other than lumber.
Mr. Thomas
- FOR 423 LOGGING AND MILLING** 3 (2-3) f s
Timber harvesting and transportation methods, equipment and costs; safety and supervision; manufacturing methods with regular and short-log types of sawmills.
Mr. Carter
- FOR 431 DIMENSION STOCK MANUFACTURING** 3 (2-3) f
Manufacturing and production methods for manufacturing dimension stock, flooring pre-fabricated stock, turnings and cut stock. Production rates, plant layout and mechanization peculiar to the industry.
Mr. Carter
- FOR 432 MERCHANDISING FOREST PRODUCTS** 2 (2-0) f
Principles and practices in the distribution and marketing of the products obtained from wood; organization and operation of retail, concentration and wholesale outlets.
Mr. Carter
- FOR 433 GLUING AND PLYWOOD** 3 (2-3) f
Prerequisites: CH 103 or 203, FOR 303
Veneer manufacturing methods and equipment; veneer products; cold-press and hot-press banding adhesives; processing and use requirements, cause and prevention of inadequate bands; molded, flat and post-formed plywood construction.
Mr. Thomas
- FOR 441 MECHANICAL PROPERTIES OF WOOD** 3 (2-3) f
Prerequisites: FOR 201, 303
Strength and related properties of commercial woods; standard A.S.T.M. strength tests; toughness; timber fastenings; structural requirements; working stresses.
Mr. Thomas
- FOR 442 FURNITURE CONSTRUCTION AND ASSEMBLY** 3 (2-3) f
Prerequisites: FOR 303, 433
Stock preparation for gluing; selecting adhesives; types of metal fastenings; joint construction and methods of joining wood and other materials; assembly methods for furniture and other wood products; construction and strength properties of laminated members.
Mr. Carter
- FOR 443 WOOD FINISHING** 3 (2-3) s
Prerequisites: FOR 201, CH 203 or 426
Preparation of wood surfaces for finish coatings; composition and application of paints, varnishes, repellents, lacquers and other wood finishing materials; finishing furniture and interior wood products.
Mr. Carter
- FOR 444 INTRODUCTION TO QUALITY CONTROL** 3 (2-3) s
Prerequisites: ST 361
A study of methods used to control quality of manufactured wood products. Control charts for variables and attributes. Acceptance sampling techniques including single, double and sequential sampling methods.
Mr. Barefoot

FORESTRY

FOR 451 PAPER COLORING LABORATORY **2 (0-12) f**
(First 8 weeks)
Evaluation and identification of dyestuffs and the development of color formulas for dyeing pulp and paper.
Mr. Libby

FOR 452 FOREST GRAZING **2 (2-0) f**
Management of range areas, all grazing regions with special consideration of the Southeast.
Mr. Bryant

FOR 453 LUMBER STRUCTURES **3 (2-3) s**
Prerequisite: FOR 441
Structural grades of lumber; working stresses; frame construction; construction estimates and computations; masonry, insulation, roofing and other structural materials; millwork; fastenings; prefabs.
Mr. Barefoot

FOR 461 PAPER CONVERTING **1 (1-0) f**
A survey of the principal processes by which paper and paper board are fabricated into the utilitarian products of everyday use.
Mr. Cook

FOR 462 ARTIFICIAL FORESTRATION **2 (1-3) s**
Production, collection, extraction and storage of forest tree seeds; nursery practice; field methods of planting.
Mr. Slocum

FOR 463 PLANT INSPECTIONS **1 (0-3) s**
One week inspection trips covering representative manufacturers of pulp and paper and papermaking equipment.
Staff

FOR 471 PULP TECHNOLOGY LABORATORY **4 (0-12) f**
Preparation and evaluation of the several types of wood pulp. The influence of the various pulping and bleaching variables on pulp quality are studied experimentally and these data evaluated critically.
Mr. Hitchings

FOR 472 FOREST POLICY AND ADMINISTRATION **2 (2-0) f**
Civil timber law, illustrated by court cases; state and federal forest policy; job-load analysis in national forest administration.
Mr. Miller

FOR 481 PULPING PROCESSES AND PRODUCTS **2 (2-0) f**
Prerequisites: FOR 201, CH 203 or 426
Fiber manufacturing processes and equipment; wall, insulation and container board products; manufacture of roofing felts; pulp products manufacturing; resin treated and specialty products, lignin and wood sugar products.
Mr. Libby

FOR 482 PULP AND PAPER MILL MANAGEMENT **2 (2-0) s**
A survey of the economics of the pulp and paper industry is followed by a study of the work of the several departments of a paper mill organization and the functions of the executives who administer them.
Mr. Libby

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

FOR 501 FOREST VALUATION **3 (2-3) f**
Prerequisite: FOR 372
The theory and techniques of valuation of forest land, timber stands and forest practices as investments and for appraisals of damage. Risks and hazards in forestry as they apply to forest investments, forest insurance and forest taxation.
Mr. Bryant

FOR 511 SILVICULTURE **3 (3-0) f**
Prerequisite: FOR 361, BO 421
The principles and application of intermediate and reproductive methods of cutting; controlled burning, silvicides and other methods of hardwood control. The application of silvicultural methods in the forests of the United States.
Mr. Miller

FOR 512 FOREST ECONOMICS **3 (3-0) f**
Prerequisites: FOR 372, EC 201
Economics and social value of forests; supply of and demand for forest products; land use; forestry as a private and a public enterprise; economics of the forest industries.
Mr. Bryant

FOR 513 TROPICAL WOODS

2 (0-4) s

Prerequisites: FOR 202

Structure, identification, properties, characteristics and use of tropical woods, especially those used in plywood and furniture.

Mr. Bethel

FOR 531 FOREST MANAGEMENT

**3 (4-6) s
(First 8 weeks)**

Prerequisites: FOR 372, Corequisite: FOR 511

Management of timber lands for economic returns; the normal forest taken as the ideal; the application of regulation methods to the forest.

Mr. Maki

FOR 533 ADVANCED WOOD STRUCTURE AND IDENTIFICATION

2 (0-6) f

Prerequisite: FOR 202

Advanced microscopic identification of the commercial woods of the United States and some tropical woods; microscopic anatomical features and laboratory techniques.

Mr. Slocum

FOR 542 FIBER ANALYSIS

2 (0-6) s

Prerequisite: FOR 202

Fiber microscopy; the determination of fiber measurement, quality, variation and identity in pulp woods.

Mr. Barefoot

FOR 553 FOREST PHOTOGRAMMETRY

**2 (2-6) s
(First 8 weeks)**

Prerequisite: FOR 372, Corequisite: 531

Interpretation of aerial photographs, determination of density of timber stands and area mapping.

Mr. Slocum

FOR 573 METHODS OF RESEARCH IN FORESTRY

Credits Arranged

Prerequisite: Senior or Graduate Standing

Research procedures, problem outlines, presentation of results; consideration of selected studies by forest research organizations; sample plot technique.

Messrs. Bethel and Maki

FOR 591 FORESTRY PROBLEMS

Credits Arranged

Prerequisite: Senior or Graduate Standing

Assigned or selected problems in the field of silviculture, logging, lumber manufacturing, pulp technology, or forest management.

Staff

COURSES FOR GRADUATES ONLY

FOR 601 ADVANCED FOREST MANAGEMENT PROBLEMS

Credits Arranged

Prerequisite: Senior or Graduate Standing

Directed studies in forest management

Graduate Staff

FOR 603 TECHNOLOGY OF WOOD ADHESIVES

3 (2-3) f s

Prerequisites: CH 425, 426; FOR 433

The fundamentals of adhesives as applied to wood-to-wood and wood-to-metal banding. Technology of adhesives. Preparation and use of organic adhesives. Testing of adhesives and evaluation of quality of adhesives and bonded joints.

Mr. Bethel

FOR 604 TIMBER PHYSICS

3 (2-2) f s

Prerequisites: FOR 441

Density, specific gravity and moisture content variations affecting physical properties; physics of drying at high and low temperatures; thermal, sound, light and electrical properties of wood.

Mr. Bethel

FOR 605 DESIGN AND CONTROL OF WOOD PROCESSES

3 (2-3) f or s

Prerequisite: FOR 604

Design and operational control of equipment for processing wood.

Mr. Bethel

FOR 606 WOOD PROCESS ANALYSIS

3 (2-2) s

Prerequisites: FOR 512, 604

Study of design and operational control of equipment for machinery, drying, gluing, finishing and preserving woods.

Mr. Bethel

GENETICS

FOR 607 ADVANCED QUALITY CONTROL Prerequisites: FOR 606, ST 515 Advanced statistical quality control as applied to wood processing.	3 (2-3) s Mr. Bethel
FOR 611 FOREST GENETICS Prerequisites: GN 411 and permission of instructor Application of genetic principles to silviculture, management and pulp utilization. Emphasis is on variations in wild populations, on the bases for selection of desirable qualities and on fundamentals of controlled breeding.	3 (2-3) f or s Mr. Zobel
FOR 621 ADVANCED TECHNOLOGY PROBLEMS Prerequisite: Graduate Standing Selected research in the field of wood technology.	Credits Arranged Graduate Staff
FOR 671 PROBLEMS IN RESEARCH Prerequisite: Graduate Standing Specific forestry problems that will furnish material for a thesis.	Credits Arranged Graduate Staff
FOR 681 GRADUATE SEMINAR Prerequisite: Graduate Standing Presentation and discussion of progress reports on research, special problems and outstanding publications in forestry and related fields.	1 (0-2) f s Messrs. Bethel and Maki

GENETICS — — — — —

COURSES FOR ADVANCED UNDERGRADUATES

GN 411 THE PRINCIPLES OF GENETICS Prerequisites: BO 102, ZO 101 An introductory course. The physical basis of inheritance; genes as units of heredity and development; qualitative and quantitative aspects of genetic variation.	3 (2-2) f Mr. Grosch
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COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

GN 512 GENETICS Prerequisite: GN 411 Intended for students desiring more thorough and detailed training in fundamental genetics with some attention to physiological aspects. (Students conduct individual laboratory problems.)	4 (3-2) f Mr. Grosch
GN 513 CYTOGENETICS I Prerequisite: GN 411 Recommended: GN 512 Variations in the chromosomal mechanisms of inheritance and their genetic consequences. The chromosomes as they affect breeding behavior in plants and animals. Lectures and laboratory.	4 (3-2) f Mr. Gerstel
* GN 540 EVOLUTION Prerequisite: GN 411 The facts and theories of evolution in plants and animals. The causes and consequences of organic diversity.	3 (3-0) f Mr. Smith
GN 541 PLANT BREEDING METHODS Prerequisite: GN 521 Recommended: ST 511 An advanced study of methods of plant breeding as related to principles and concepts of inheritance.	3 (3-0) f Messrs. Haynes, Mann
GN 542 (FC 542 or HRT 542) PLANT BREEDING FIELD PROCEDURES Prerequisite: GN 541 A laboratory and field study of the application of the various plant breeding techniques and methods used in the improvement of economic plants.	2 (0-4) (in summer sessions) Messrs. Haynes and Mann

* Given 1958-59 and alternate years.

The following courses, offered in other departments, are available for graduate credit in Genetics:

- GN 503 (See AI 503 Animal Breeding).** 3 (3-0) f
GN 520 (See PO 520 Poultry Breeding). 3 (3-0) f
**** GN 532 (See ZO 532 Biological Effects of Radiations).** 3 (3-0) s

COURSES FOR GRADUATES ONLY

**** GN 614 CYTOGENETICS II** 3 (0-6) s
 Prerequisite: GN 513 or equivalent
 Laboratory and discussion: The cytogenetic analysis of natural and experimental material, plant and animal. Assigned exercises and student projects. The course provides the student with a working knowledge of cytogenetic procedure. Designed for those who expect to become professional breeders or geneticists.

Mr. Smith

**** GN 620 GENETIC CONCEPTS OF SPECIATION** 3 (3-0) s
 Prerequisites: GN 512 and either GN 513 or 540
 Review of current ideas on the mechanisms of the origin of species and the nature of species differentiation.

Mr. Stephens

*** GN 621 GENETICS OF POPULATIONS** 3 (3-0) s
 Prerequisite: GN 512

Recommended: GN 540

Review of the forces molding the genetic structure of natural and artificial populations of plants and animals.

Mr. Lewontin

*** GN 633 PHYSIOLOGICAL GENETICS** 3 (3-0) s
 Prerequisite: GN 512
 Recent advances in physiological genetics. Attention will be directed to literature on the nature and action of genes, and to the interaction of heredity and environment in the expression of the characteristics of organisms.

Mr. Grosch

GN 641, 642 COLLOQUIUM IN GENETICS 3 (3-0) f s
 Prerequisites: Graduate standing, consent of instructor
 Informed group discussion of prepared topics assigned by instructor.

Graduate Staff

GN 651, 652 SEMINAR 1 (1-0) f s
 Prerequisite: Graduate standing

GN 661, 662 RESEARCH Arranged
 Prerequisite: Graduate standing
 Original research related to the student's thesis problem. A maximum of six credits for the Master's degree; by arrangement for the Doctorate.

The following courses, offered in other departments, are available for graduate credit in Genetics:

- GN 602 (see AI 602 Advanced Animal Breeding).** 3 (3-0) s
GN 626 (see ST 626 Statistical Concepts in Genetics). 3 (3-0) s

GEOLOGICAL ENGINEERING

COURSES FOR UNDERGRADUATES

MIG 101 EARTH SCIENCE 3 (3-0) s
 Elective. Not to be taken after MIG 120
 Introductory course in General Geology; changes in the earth, and underlying physical and life processes.

Staff

MIG 120 PHYSICAL GEOLOGY 3 (2-3) f s
 Dynamic processes acting on and within the earth; materials and makeup of the earth's crust; emphasis on engineering and agricultural applications in the southeast. Lectures, laboratories and field trips.

Staff

* Given 1958-59 and alternate years

** Given 1959-60 and alternate years

GEOLOGICAL ENGINEERING

MIG 222 HISTORICAL GEOLOGY

3 (2-3) s

Prerequisite: MIG 120

Chronologic account of the geological events during the development of the earth's crust, mainly in North America. Evolution and environmental significance of the principal fossil animal and plant groups.

Staff

MIG 323 PALEONTOLOGY

3 (2-3) f s

Prerequisite: MIG 222

Study of fossil life forms, with major emphasis on classification and structure of the invertebrate animals and their application to problems of correlation of strata. Lectures, laboratories and field trips.

Staff

MIG 325 GEOLOGY AND MINERAL RESOURCES OF NORTH CAROLINA

3 (2-3) f s

Prerequisite: MIG 120

Physical geography, general geology, common rocks and minerals, and mines and quarry products of the State. Lectures, laboratories and field trips.

Staff

MIG 330 MINERALOGY

3 (1-6) f

Prerequisite: CH 103

Crystallography, and physical and chemical mineralogy. Lectures and laboratory work.

Mr. Miller

MIG 351 STRUCTURAL GEOLOGY

3 (2-3) f

Prerequisite: MIG 120

Structures imposed on igneous, sedimentary, and metamorphic rock masses by deformation and movement in the earth's crust. Lectures, laboratories and field trips.

Mr. Parker

MIG 372 ELEMENTS OF MINING ENGINEERING

4 (2-6) s

Prerequisite: MIG 120 and junior standing

Introduction to mining: methods of development and exploitation, drilling and blasting, mining law, administration and safety. Lectures, laboratory work and field trips.

Mr. Miller

MIG 411, 412 ECONOMIC GEOLOGY

3 (2-3) f s

Prerequisites: MIG 120, 330

Mode of occurrence, association, origin, distribution and uses of economically valuable minerals. Lectures, laboratories and field trips.

Staff

MIG 442 PETROLOGY

3 (2-3) s

Prerequisites: MIG 120, 330

Materials of the earth's crust; composition, texture, classification, megascopic identification, and alterations of the principal igneous, sedimentary and metamorphic rocks. Lectures, laboratories and field trips.

Mr. Parker

MIG 452 SEDIMENTATION AND STRATIGRAPHY

3 (2-3) s

Prerequisite: MIG 442

Sedimentary processes, products, and structures. Principles of sub-division of sedimentary terranes into natural units and the determination of their ages and history. Lectures, laboratories and field trips.

Mr. Parker

MIG 461 ENGINEERING GEOLOGY

3 (3-0) f

Prerequisite: MIG 120

The application of geologic principles to engineering practice; analysis of geologic factors and processes affecting specific engineering projects.

Mr. Miller

MIG 462 GEOLOGICAL SURVEYING

3 (1-6) s

Prerequisites: MIG 351, 442

Methods of field observation and use of geologic surveying instruments in surface and underground work; representation of geologic features by maps, sections and diagrams. Lectures, laboratories and field work.

Messrs. Miller, Parker

MIG 481, 482 SENIOR SEMINAR

1 (1-0)

Staff

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES**MIG 510 MINERAL INDUSTRY****3 (3-0) s**

Prerequisite: Senior standing in Mineral Industries
 Economics of mineral industry. Cycles of mineral production. Exhaustibility. Reserves. Valuation of mineral property. National resources; essential, critical and strategic minerals. World distribution and production.

Mr. Parker

MIG 522 PETROLEUM GEOLOGY**3 (3-0) s**

Prerequisites: MIG 351, 442
 Properties, origin and modes of occurrence of petroleum and natural gas. Geologic and economic features of the principal oil and gas fields, mainly in the United States.

Staff

MIG 531 OPTICAL MINERALOGY**3 (1-4) f**

Prerequisites: MIG 330 and PY 202
 Optical principles involved in the petrographic (polarizing) microscope and related instruments. Microscopic determination of minerals in thin section and in fragments. Lectures and laboratory work.

Mr. Parker

MIG 552 GEOPHYSICS**3 (2-3) s**

Prerequisites: MIG 351, PY 202
 Fundamental principles underlying all geophysical methods; procedure and instruments involved in gravitational, magnetic, seismic, electrical and other methods of studying geological structures and conditions; study of applications and interpretations of results.

Mr. Miller

MIG 571, 572 MINING AND MINERAL DRESSING**3 (2-3) f s**

Prerequisite: MIG 372
 Principles of the mineral industry; mining laws, prospecting, sampling, development, drilling, blasting, handling, ventilation and safety; administration; surveying, assaying; preparation, beneficiation and marketing.

Mr. Miller

MIG 581 GEOMORPHOLOGY**3 (2-3) f**

Prerequisite: MIG 442
 A systematic study of land forms and their relations to processes, stages of development, and adjustment to underlying structure. Lectures, map interpretations, and field trips.

Staff

COURSES FOR GRADUATES ONLY**MIG 611, 612 ADVANCED ECONOMIC GEOLOGY****3 (3-0) f s**

Prerequisites: MIG 411, 412
 Detailed study of the origin and occurrence of specific mineral deposits.

Graduate Staff

MIG 632 MICROSCOPIC DETERMINATION OF OPAQUE MINERALS**3 (0-6) s**

Prerequisite: MIG 531
 Identification of metallic, opaque minerals in polished sections by physical properties, etch reactions and microchemical tests. Laboratories.

Mr. Parker

MIG 642 ADVANCED PETROGRAPHY**3 (1-4) s**

Prerequisites: MIG 442, 531
 Application of the petrographic microscope to the systematic study of the composition and origin of rocks; emphasis on igneous and metamorphic rocks.

Mr. Parker

MIG 681, 682 SEMINAR**1 (1-0) f s**

Prerequisite: Graduate standing
 Scientific articles, progress reports and special problems of interest to geologists and geological engineers discussed.

Graduate Staff

MIG 691 GEOLOGICAL RESEARCH**3 or 6**

Prerequisite: Permission of the instructor
 Lectures, reading assignments, and reports; special work in Geology to meet the needs and interests of the students.

Graduate Staff

HISTORY AND POLITICAL SCIENCE — — — — —

COURSES IN HISTORY FOR UNDERGRADUATES

HI 201 THE ANCIENT WORLD

2 (2-0) f

A history of ancient times from the rise of civilization in Egypt and Babylonia to the decline of Rome in the fifth century. Emphasis is placed upon the evolution of cultures and civilizations, and upon the development of art, science, literature and philosophy.

HI 202 THE MEDIEVAL WORLD

2 (2-0) s

The political, economic, social and cultural developments from the decline of the Roman Empire in the West to the emergence of the modern period.

HI 205 THE MODERN WESTERN WORLD

3 (3-0) f s

A history of major movements in the Western World from the Renaissance to the present.

HI 225, 226 MODERN EUROPE

3 (3-0) f s

A study of the political, economic, intellectual and social developments in Europe from the age of Columbus to the present. The course divides at 1815. The semesters may be taken separately.

HI 251 THE UNITED STATES TO 1865

3 (3-0) f

A study of major historical developments in the growth of the American nation through the Civil War.

HI 252 THE UNITED STATES SINCE 1865

3 (3-0) f s

A study of major historical developments in the growth of the American nation since the Civil War.

HI 261 THE UNITED STATES IN WESTERN CIVILIZATION

3 (3-0) f s

An analysis of major developments in American history, with American history considered as part of the historical development of modern western civilization.

HI 301, 302 AMERICAN ECONOMIC HISTORY

3 (3-0) f s

A history of economic institutions and customs in the United States from the time of the transfer to the New World of European economic customs to the present. The course divides at 1860. The semesters may be taken separately.

HI 306 NORTH CAROLINA HISTORY

2 (2-0) s

The political, social and economic developments of North Carolina from colonial beginnings to the present.

HI 331 THE OLD SOUTH

3 (3-0) f

The intellectual and cultural history of the Old South and of ante-bellum society from the end of the colonial period to the Civil War.

HI 332 THE NEW SOUTH

3 (3-0) s

A study of the political, economic and social developments in the South from the Civil War to the present.

HI 333 AMERICAN AGRICULTURAL HISTORY

3 (3-0) f

Historical developments of agricultural activity in the United States from the transfer of western European agriculture to America to the present, with particular emphasis on the historical place and importance of agriculture in American life.

HI 367 MODERN WESTERN ECONOMIC HISTORY

3 (3-0) s

A treatment of the historical development of the economic customs and institutions of the western world during the modern period, beginning with the Commercial Revolution.

HI 375 LATIN AMERICA

3 (3-0) s

Prerequisite: HI 205 or HI 252 or an acceptable substitute.

A study of the main currents of Latin American development from 1492 to the present day. The histories of leading countries including Brazil, Argentina, Colombia, Peru and Mexico will be emphasized to show political, economic and social trends as experienced during the conquest, colonization and independence, and, especially, the national period since 1830.

HI 401 RUSSIAN HISTORY

3 (3-0) f

This course presents the major trends in Russian social, political, economic and cultural history, with emphasis on the nineteenth and twentieth centuries. USSR policy is studied in relation to the full sweep of Russian history.

HISTORY AND POLITICAL SCIENCE

HI 402 ASIA AND THE WEST

3 (3-0) s

A history of Asia from the mid-nineteenth century to the present, with emphasis on Asian nationalism and conflict with the imperial powers.

HI 409 COLONIAL AMERICA

2 (2-0) f

A study of the development of the American colonies in the seventeenth and eighteenth centuries, with special emphasis on European backgrounds.

HI 412 RECENT UNITED STATES HISTORY

3 (3-0) f s

A study of the main currents in American political, economic, social and diplomatic history of the twentieth century.

HI 415 INTERNATIONAL RELATIONS SINCE 1870

3 (3-0) s

Prerequisite: HI 205 or an acceptable substitute

A study of the relations between the major countries of the world since 1870. In addition to the history of actual diplomatic relations, crises and settlements, attention is given to the causes of the various international crises. The course also includes study of the development of international organizations and the various points of conflict between international law and organization and the sovereignty of independent governments.

HI 422 HISTORY OF SCIENCE

3 (3-0) s

A study of the evolution of science from antiquity to the present with particular attention given to the impact of scientific thought upon selected aspects of western civilization. The course provides a broad perspective of scientific progress and shows the interrelationship of science and major historical developments.

HI 461 THE SOVIET UNION (Same as EC, PS 461)

3 (3-0) f

Prerequisites: One semester of Economics and Political Science 201 or History 205 or acceptable substitute

An analysis of the structure and function of the major Soviet economic, political and social institutions with special stress on the historical roots and continuity of Russian civilization. The course is presented in three equal phases of approximately five weeks each, covering Russian history, Soviet government, and Soviet economy.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

HI 534 (SAME AS RS 534) FARMERS' MOVEMENTS

3 (3-0) s

Prerequisite: 3 credits in American history, American government, sociology or a related social science

A history of agricultural organizations and movements in the United States and Canada principally since 1865, emphasizing the Grange, the Farmers' Alliance, the Populist revolt, the Farmers' Union, the Farm Bureau, the Equity societies, the Nonpartisan League, cooperative marketing, government programs and present problems.

Mr. Noblin

COURSES IN POLITICAL SCIENCE FOR UNDERGRADUATES

PS 201 THE AMERICAN GOVERNMENTAL SYSTEM

3 (3-0) f s

A study of the American federal system, integrating national and state government, with emphasis on constitutional principles, major governmental organs, governmental functions and the politics and machinery of elections. Some attention is given to other types of political systems, and comparisons are made where relevant throughout the course.

PS 202 COUNTY AND MUNICIPAL GOVERNMENT

3 (3-0) f s

This course examines the principal types of county and city government and the functions performed by counties and cities including functional relationships with the state and national governments.

PS 301 COMPARATIVE POLITICAL SYSTEMS

3 (3-0) f

An analytical study of the federal and unitary systems and the presidential, parliamentary and authoritarian plans of government, with special attention to the governments of the United Kingdom, France, Germany, Italy and the Soviet Union.

PS 302 CONTEMPORARY WORLD POLITICS

3 (3-0) f s

A study of the pattern of international life, the instruments of national policy, the controls upon international behavior and the major problems in international relations since World War II, including the development of the United Nations and various regional arrangements. Attention is given to the national interests and foreign policies of the states belonging to the Western and Soviet blocs, with emphasis on the position of the United States.

HORTICULTURE

PS 401 AMERICAN PARTIES AND PRESSURE GROUPS 3 (3-0) f s
After a brief survey of those features of American government essential to an understanding of the political process, the course proceeds to examine the American electorate and public opinion and devotes its major attention to the nature, organization and programs of pressure groups and political parties and to their efforts to direct opinion, gain control of government and shape public policy. Special attention is given to party organization and pressure group activity at the governmental level and to recent proposals to improve the political party as an instrument of responsible government.

PS 406 PROBLEMS IN NORTH CAROLINA GOVERNMENT 2 (2-0) s
Prerequisite: PS 201 or an acceptable substitute
Selected problems arising from the operation of the legislative, administrative and judicial machinery in North Carolina. In addition to acquiring a comprehensive view of these problems each student will make an intensive study of a special phase of one of them.

PS 461 (Same as EC, HI 461) THE SOVIET UNION

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

PS 501 MODERN POLITICAL THEORY 3 (3-0) f
Prerequisite: PS 201 or HI 205 or an acceptable substitute
A study of the state and its relationship to individuals and groups, approached through the reading of selected passages from the works of outstanding philosophers from the sixteenth century to the present.

Mr. Holtzman

PS 502 PUBLIC ADMINISTRATION 3 (3-0) f
Prerequisite: PS 201 or PS 202 or an acceptable substitute.
A study of the principles and problems of administration in a democracy, including such matters as organization, personnel, fiscal management, relationship to the legislative and judicial functions, control of administrative agencies and policies and public relations.

Mr. Block

PS 503 INTERNATIONAL ORGANIZATION 2 (2-0) s
Prerequisite: PS 201 or HI 205 or an acceptable substitute
A study of the evolving machinery and techniques of international organization in the present century with particular emphasis on recent developments. The actual operation of international organization will be illustrated by the study of selected current international problems.

Graduate Staff

PS 512 AMERICAN CONSTITUTIONAL THEORY 3 (3-0) s
Prerequisite: PS 201 or an acceptable substitute.
Basic constitutional doctrines, including fundamental law, judicial review, individual rights and political privileges, and national and state power. Special attention is given to the application of these doctrines to the regulation of business, agriculture, and labor and to the rights safeguarded by the First, Fifth and Fourteenth Amendments to the Constitution.

Mr. Edsall

HORTICULTURE - — — — —

COURSES FOR UNDERGRADUATES

HRT 201, 202 WOODY PLANTS 3 (1-4) f s
Distribution, identification, adaptation, culture and use of ornamental trees, shrubs and vines in landscape planting.

Mr. Randall

HRT 212 HERBACEOUS PLANTS** 2 (0-4) s
Distribution, identification, adaptation, culture and use of ornamental herbaceous perennial and annual plants in landscape planting.

Mr. Randall

HRT 222 INTRODUCTION TO HORTICULTURE 3 (3-0) f s
To give the student a general concept of the nature, importance, distribution and utilization of horticultural crops and a general understanding of the principles underlying the production of fruits, ornamentals and vegetables.

Mr. Gardner

** Offered 1959-60 and in alternate years.

HRT 301 PLANT PROPAGATION

3 (2-2) f s

Prerequisite: BO 101

A study of principles, methods and practices in seedage, cuttage, division, budding, grafting and other methods of plant propagation.

Mr. Randall

HRT 311 NURSERY PRACTICE**

3 (2-2) f

Prerequisite: BO 101

The principles and practice involved in the production, management and marketing of nursery plants.

Mr. Randall

HRT 321 GRADING, PACKING AND INSPECTION OF FRUITS AND VEGETABLES

3 (2-3) f

Prerequisite: BO 101

A detailed study of U. S. grades and standards for the principal fruit and vegetable crops. Practice in grading, packing, and variety identification. A course designed to prepare the student for work in the Federal-State inspection service. Field trips are required.

Mr. Gardner

HRT 331* FLORAL DESIGN AND SHOP MANAGEMENT

3 (1-5) f

Principles and practices of flower shop management including the art of floral design.

Mr. Randall

HRT 342 LANDSCAPE GARDENING

3 (2-3) s

The application of principles of design to landscaping the home grounds. The identification, propagation, use and maintenance of ornamental plants and lawn grasses in improving the home grounds.

Mr. Randall

HRT 412 OUTDOOR PRODUCTION OF FLORAL CROPS**

3 (2-3) s

Prerequisites: BO 102, SOI 200 (or concurrently)

Principles, methods and practices in commercial production of floral crops out-of-doors.

Mr. Randall

HRT 421 FRUIT PRODUCTION

3 (2-3) f

Prerequisites: BO 102, SOI 200 (or concurrently)

Methods of production of the principal tree and small fruits. This is designed to give an understanding of the practices involved in fruit production.

Messrs. Correll, Walker

HRT 432 VEGETABLE PRODUCTION

3 (2-3) f s

Prerequisites: BO 102, SOI 200 (or concurrently)

Soil preparation, seedage, plant production, fertilization, irrigation, pest control and general culture of vegetable crops.

Messrs. Miller, McCombs

HRT 441* COMMERCIAL FLORICULTURE

3 (2-2) f

Prerequisites: BO 102, SOI 200 (or concurrently)

Greenhouse construction, heating and management.

Mr. Randall

HRT 442* COMMERCIAL FLORICULTURE

3 (2-2) s

Prerequisite: HRT 441

Botanical characters, importance, propagation, culture and preparation for market of the floral crops commonly grown in the greenhouse.

Mr. Randall

HRT 452 PRINCIPLES OF FRUIT AND VEGETABLE PROCESSING

3 (2-2) s

Prerequisite: BO 102

Principles and methods involved in the preservation of fruits and vegetables, with emphasis placed on canning and freezing.

Mr. Jones

HRT 462 GRADING AND INSPECTION OF PROCESSED FRUITS AND VEGETABLES

2 (1-2) s

Prerequisite: Registration by permission of the instructor

Methods of inspection, grading and critical appraisal for quality of the principal fruit and vegetable products.

Mr. Hoover

* Offered 1958-59 and in alternate years.

** Offered 1959-60 and in alternate years.

HORTICULTURE

HRT 481 BREEDING OF HORTICULTURAL PLANTS

3 (2-2) f

Prerequisite: GN 411

The application of genetics and plant breeding to the improvement of horticultural crops.
Mr. Haynes

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

HRT 501 HORTICULTURE PROBLEMS

Credits by Arrangement

Prerequisite: BO 421 or GN 411 and permission of instructor

Investigation of a problem in horticulture, each student selecting a problem and conducting the investigation under the direction of the instructor. The problem may last one or two semesters. Credits will be determined by the nature of the problem, not to exceed a total of 4 hours.

Graduate Staff

HRT 512* HANDLING AND STORAGE OF ORAMENTAL PLANTS

3 (2-2) f

Prerequisite: BO 421

A study of the handling and storage of ornamental plants and plant parts. Consideration will be given to the chemical and physiological changes occurring in storage, storage facilities, materials and methods for handling and storing these products.

Mr. Gartner

HRT 521, 522 TECHNOLOGY OF FRUIT AND VEGETABLE PRODUCTS

3 (2-2) f f

Prerequisite: BO 312 (or concurrently)

Comprehensive treatment of principles and methods of preservation of fruits and vegetables, including small scale plant operation and commercial processing plant visits.

Mr. Jones

HRT 532** ADVANCED FRUIT PRODUCTION

4 (3-3) f

Prerequisites: HRT 421, BO 421 (or concurrently)

A comprehensive study of principles involved in production of tree and small fruits.

Mr. Walker

HRT 541 (GN 541 or FC 541) PLANT BREEDING METHODS

3 (3-0) f

Prerequisites: GN 512; ST 511 Recommended

An advanced study of methods of plant breeding as related to principles and concepts of inheritance.

Messrs. Haynes, Mann

HRT 542 (GN 542 or FC 542) PLANT BREEDING FIELD PROCEDURES

2 (0-4) f

Prerequisites: HRT 541, or FC 541 or GN 541

Laboratory and field study of the application of various plant breeding techniques and methods used in the improvement of economic plants.

Messrs. Haynes, Mann

HRT 562** HANDLING AND STORAGE OF FRUITS AND VEGETABLES

3 (2-2) f

Prerequisite: BO 421

The chemical and physiological changes occurring during handling and storage of fruits and vegetables. Consideration will also be given to facilities for handling and storage.

Mr. McCombs

HRT 571* ADVANCED VEGETABLES CROPS

3 (3-0) f

Prerequisites: BO 421 (or concurrently) and consent of instructor

A study of the origin, distribution, botanical relationships and basic principles of production of the major vegetable crops.

Mr. Cochran

HRT 581 SENIOR SEMINAR

1 (1-0) f f

Prerequisite: Senior in Horticulture

Presentation of scientific articles, progress reports in research, and special problems in horticulture and related fields.

Mr. Gardner

COURSES FOR GRADUATES ONLY

HRT 601 ADVANCED OLERICULTURE

3 (3-0) f

Prerequisite: HRT 571

A study of a specific technical problem, involving original investigation, including a survey of pertinent literature, or an exhaustive study of literature on a given subject or plant.

Mr. Cochran

* Offered 1958-59 and in alternate years.

** Offered 1959-60 and in alternate years.

INDUSTRIAL AND RURAL RECREATION

HRT 602 ADVANCED ORNAMENTAL HORTICULTURE

3 (3-0) s

Prerequisite: BO 421, HRT 442

A study of specific problems in ornamental crops, either through a review of pertinent literature or by an original investigation.

Mr. Gartner

HRT 612 ADVANCED FRUIT AND VEGETABLE PROCESSING

3 (3-0) s

Prerequisite: HRT 522 or equivalent

Critical study of certain processing methods as applied to fruit and vegetable preservation.

Mr. Jones

HRT 621* METHODS AND EVALUATION OF HORTICULTURAL RESEARCH

3 (3-0) f

Prerequisite: BO 421, ST 511 (or concurrently)

Methods and techniques in the field of horticulture and their application in the solution of current problems. Critical evaluation of published papers reporting results of horticultural experiments. Methods of compiling data and presenting results.

Mr. Cochran

HRT 632 ADVANCED POMOLOGY

3 (3-0) s

Prerequisite: HRT 532 or equivalent

A critical study of specific problems in fruit crops including current literature.

Mr. Walker

HRT 641 RESEARCH

Credits by Arrangement

Prerequisite: Graduate standing in Horticulture—consent of instructor

Original research on specific problems in fruit, vegetable or ornamental crops, or in fruit and vegetable processing. Thesis prepared should be worthy of publication. A maximum of six credits is allowed toward the Master of Science degree; no limitation on credits in Doctorate program.

Graduate Staff

HRT 651 SEMINAR

1 (1-0) f s

Prerequisite: Graduate standing

Presentation of scientific articles, progress reports in research, and special problems in Horticulture and related fields. Presentation of one or more papers each semester is required.

Graduate Staff

— — — — — INDUSTRIAL AND RURAL RECREATION

COURSES FOR UNDERGRADUATES

REC 152 INTRODUCTION TO RECREATION

3 (2-2) f s

This course is designed to provide instruction in the following areas: History and foundations of recreation including objectives, economic and social aspects, definition and importance; status of organized recreation in our modern society; certain applied principles of recreation; recreation leadership; activities and program planning; and tournament planning and administration. The course is of lecture-laboratory technique.

Mr. Stott

REC 153 AQUATIC SPORTS

2 (0-4) f s

A laboratory course includes: the history of the techniques and methods of teaching swimming, modern methods of teaching diving, officiating, games, pageants, the use of small craft, life-saving techniques, principles of water safety, the organization and administration of water safety programs and the maintenance of the swimming pool and water front.

Staff

REC 201 PLAYGROUND LEADERSHIP

2 (1-3) f s

This course is designed to present to the student play activities of an active, semi-active, and quiet nature so that a selection can be made to fit a playground situation. Special emphasis is placed on the learning of low organized games, contests, relays and water activities and their practical application in an actual playground program. Stress is placed on the principles, techniques and tools of effective playground leadership.

Mr. Miller

* Offered 1958-59 and in alternate years

** Offered 1959-60 and in alternate years

INDUSTRIAL AND RURAL RECREATION

REC 203 INDIVIDUAL CORRECTIVE PHYSICAL EDUCATION

2 (2-0) f

The problems underlying the need for an individual physical education program for handicapped students are discussed. The primary emphasis will be on the organization and administration of the individual physical education program in schools and colleges; the formulation of individual programs of physical education for the most prevalent types of disabilities found in the school population and the techniques necessary for effective accomplishment of the objectives of the program.

Mr. Crawford

REC 204 METHODS AND MATERIALS IN HEALTH EDUCATION

2 (2-0) s

A consideration of the most appropriate content and methods which should be in high school health education programs. Sources of materials are stressed. Public relations are studied.

Mr. Miller

REC 205 METHODS AND MATERIALS IN PHYSICAL EDUCATION

2 (2-0) †

Presents critical studies of methods of instruction and procedures in supervision applicable to physical education. Provides observation in the required physical activity-service courses.

Mr. Hines

REC 207 HISTORY AND PRINCIPLES OF PARK ADMINISTRATION

2 (2-0) f s

This course includes the study of the history, present status and the basic principles of operation of parks and park systems in America.

Mr. Stott

REC 251 SOCIAL RECREATION I

3 (0-6) f s

This course presents material and information needed for conducting social play in the home, church, club, camp, on the playground and in the recreation center. It emphasizes the place of the leader in recreation music and drama. Stress is placed on the acquiring of technical knowledge of social activities, including rhythmic and square dancing, and the conducting of specific types of activities.

Mr. Crawford

REC 252 SOCIAL RECREATION II

3 (0-6) f s

Prerequisite: REC 251

A laboratory course is designed to develop leadership skills in recreation dramatics and music. Dramatic areas to be considered are: acting, children theatres, choral speaking, creative drama, play production, puppetry, story telling and stage design and equipment. Activities in recreation music will include: singing, playing, rhythmic movement, song creation and combined activities. Outside studies and assigned readings with reports are required.

Mr. Crawford and visiting instructors

REC 253 PRINCIPLES OF PHYSICAL EDUCATION

3 (2-2) f s

This course is designed to give the student a professional orientation in physical education and the place of physical education activities in allied and related fields. It introduces the student to the program of physical education—its interpretation in the light of present day needs, its sociological basis, aims and objectives and a sampling of program techniques. In the laboratory period stress is placed on the learning of skills and coaching techniques involved in executing and directing the simplest to the most complex type of activities performed on mats and gymnasium apparatus.

Mr. Miller

REC 301 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION

2 (2-0) f s

This course is designed to prepare students to meet the problems of organization and administration of physical education with the view in mind of making suitable adaptation to various related fields. It presents the solution to many of the problems facing the administrator and teacher in organizing and administering a physical education program with analogous comparisons of these problems to other areas in the field of recreation. The course is intended as a practical approach and a background for the student going into the physical activity field where problems of organization and administration assume major proportions in this area of work.

Mr. Miller

REC 315 PREVENTION AND CARE OF ATHLETIC INJURIES

2 (2-0) f s

Prerequisite: ZO 213 or its equivalent

This course is designed for students in residence and for individuals in-service. Directors of community centers, boys clubs, coaches of athletic teams, athletic directors and others are confronted constantly with: the prevention and the care of athletic injuries. The course is of lecture-laboratory technique.

Mr. Crawford

INDUSTRIAL AND RURAL RECREATION

REC 325 ACTIVITIES FOR THE HANDICAPPED INDIVIDUAL

2 (2-0) f s

This course provides students with methods that will motivate the atypical individual to improve not only his physical condition but also his outlook on life. To utilize modern educational principles and sport activities which will satisfy the handicapped individual's needs, interest and capacity. To provide sources of information applicable to the problem. Outside studies and assigned readings with reports are required.

Mr. Crawford

REC 331 SCHOOL CAMPING

2 (1-2) f s

This course covers the history of school camping and outdoor education. The purpose of this course is to provide the student with the methods and techniques in planning the school camp program so as to furnish a laboratory experience in those areas of study that can best be learned in the out-of-doors. Practical consideration will be given to the preplanning of school camping experiences.

Mr. Stott

REC 333 FIRST AID AND SAFETY

2 (1-2) f s

This course stresses first aid and safety education in relation to the home, school and community. It strongly emphasizes safety principles as applied to activities of the gymnasium, playgrounds and athletic fields. Laboratory will provide practice in first aid skill.

Mr. Stott

REC 351 INDIVIDUAL SPORTS IN RECREATION

3 (0-6) f s

Prerequisite: Completion of Physical Education requirement or equivalent

The course provides for group instruction and laboratory experiences in the following sports: archery, bowling, golf, handball, tennis, table tennis, bait and fly casting, badminton and squash. Problems involved in starting and conducting a program of individual sports organized on a mass basis and designed to serve the interest of all people are studied. Officiating techniques applicable to individual sports are utilized. The course is of laboratory character, and study of the professional problems involved with assigned readings and reports is required.

Mr. Crawford

REC 352 TEAM SPORTS IN RECREATION

3 (0-6) f s

Prerequisite: Completion of Physical Education requirement or equivalent

The course provides for group instruction and laboratory experiences in the following games: football, basketball, baseball, volleyball and speedball. Problems involved in starting and conducting a program of group games organized on a mass basis designed to serve the interests of all people are studied. Officiating techniques applicable to the various games are utilized. The course is of laboratory character, and study of the professional problems involved with assigned readings and reports is required.

Mr. Crawford

REC 353 CAMP ORGANIZATION AND LEADERSHIP

3 (2-2) f s

This course surveys the development of organized camping and the educational, health, and recreational objectives of camping. Program planning and leadership training in community, private, agency and school camping is emphasized. Laboratory will provide practice in campcraft skills.

Mr. Stott

REC 354 PERSONAL AND COMMUNITY HYGIENE

3 (3-0) f s

This course presents the essential present-day knowledge of personal and community health. Emphasis is placed upon health problems, disease prevention, communicable diseases and their control, public health administration, school and industrial hygiene and various other health problems confronting the individual and the community. The course presents valuable and interesting health information to college men and women in order that they might live more intelligently in terms of newer health concepts and also be better prepared to assume their responsibilities as citizens of their respective communities.

Mr. Miller

COURSES FOR ADVANCED UNDERGRADUATES

REC 401 PRINCIPLES AND PRACTICES OF INDUSTRIAL RECREATION

2 (2-0) s

A study of existing programs of industrial recreation, their operation, methods of finance, scope and problems is emphasized. Relationship of industrial recreation to other programs of recreation is studied.

Mr. Hines

REC 404 PRINCIPLES AND PRACTICES OF RURAL RECREATION

2 (2-0) s

A study of the organization and administration of rural recreation programs and facilities. Emphasis on planning programs of recreational activities for the rural community, the county-wide program, clubs and organizations. Study of existing programs of rural recreation, their operation and their problems will receive major attention.

Mr. Hines

INDUSTRIAL AND RURAL RECREATION

REC 411 PARK MAINTENANCE AND OPERATION I

2 (1-2) f s

Prerequisite: Senior status

This course deals with: methods of operation of various park facilities for public use; interpretative and public use programs; information and education; park personnel administration; and protection and law enforcement.

Mr. Stott

REC 412 PARK MAINTENANCE AND OPERATION II

2 (1-2) f s

Prerequisite: REC 411

This course will begin with a one-week tour of various types of parks and park systems. The following subjects would then be studied in detail: preventive maintenance, job planning and scheduling, modern maintenance techniques and maintenance materials.

Mr. Stott

REC 431 CAMPCRAFT

2 (0-4) f s

Prerequisite: REC 353 or equivalent

This course is entirely of a laboratory nature. It is designed to provide the student with skills, and methods of teaching campcraft and woodcraft.

Mr. Stott

REC 451 FACILITIES AND EQUIPMENT

3 (0-6) f s

This course includes the history of park and recreation facility development and trends in recreation facility planning. Emphasis is placed upon the planning principles involved in the design and layout of recreation areas and recreation buildings. Field trips will enable the student to see the various types of recreation facilities.

Mr. Stott

REC 452 RECREATION ADMINISTRATION

3 (3-0) f s

Prerequisite: Senior status

This course deals with: the internal organization of a recreation department; financing; accounting and financial procedure; budget making and control; records, reports and filing; program planning and control; personnel policies and organization; and public relations.

Mr. Hines

REC 470 SUPERVISED PRACTICE

6 (0-18) f s

This course is intended to provide the prospective recreation director with an opportunity to acquire experience in the skills and techniques involved in the organization and administration of recreation activities in an established program. Each student during his senior year will spend 10 weeks off-campus in a selected location. (A minimum of 225 contact hours are required.) The student will have the opportunity to observe the activities and practices of the recreation executive, to organize and conduct activities under supervision, to observe activities and practices of experienced recreation activity leaders and to observe the maintenance and operation of facilities. Prior to enrollment in this course, the student is expected to have completed the senior field trip consisting of visits to recognized programs of recreation throughout North Carolina. The student will have the opportunity to become familiar with the total recreation program.

Mr. Hines

REC 471 ORGANIZING THE RECREATION PROGRAM

2 (2-0) f s

Prerequisite: Senior status

This course includes the types of recreation opportunities to be made available to individuals, groups or communities to be served and the methods of providing these opportunities. Activities to be considered are classified as: arts and crafts; dance; drama; games, sports and athletics; hobbies; music; outdoor recreation; reading, writing and speaking; social recreation; special events and voluntary service. The lecture-discussion technique is used. Outside studies and assigned readings with reports are required.

Mr. Hines

REC 472 OBSERVATION AND FIELD EXPERIENCE

2 (0-6) f s

Prerequisite: Senior status

This course is designed to provide the student with the opportunity to observe, appraise and evaluate: the operation of program activities; teaching methods; administrative, supervisory and organizational techniques; procedures and conduct of advisory and commission meetings; professional conferences and society meetings. Students will be expected to complete this entire gamut. By use of field experience, the student will be expected to prepare written reports of observations. Only those experiences approved by the recreation faculty shall be accepted.

Mr. Hines

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

REC 501 SPECIAL PROBLEMS IN RECREATION

3 (2-2) f

Prerequisites: 1. Completion of 20 hours credit in recreation courses or equivalent. 2. A "B" average in recreation courses or equivalent

A survey of specific problems in recreation. Aims to develop critical analysis. Forms a basis for the organization of research projects, for the compilation and organization of material in a functional relationship and for the foundation of policies. Follows the seminar procedure.

Mr. Hines

— — — INDUSTRIAL ARTS AND INDUSTRIAL EDUCATION

COURSES FOR UNDERGRADUATES

IA 100 INTRODUCTION TO INDUSTRIAL ARTS

1 (1-0) f

To assist students in their orientation to college life and to acquaint them with the scope and problems of industrial arts.

Staff

IA 103, 104 INDUSTRIAL ARTS DRAWING

3 (1-4) f s

Practice in lettering, sketching and the use of instruments as applied to orthographic projection, pictorial drawings, sheet metal drawing, machine drawings, charts and graphs, and architectural drawing. Explanation sketches and practical working drawings. Materials and processes for drawing reproduction.

Mr. Troxler

IA 107 GENERAL WOODWORK

3 (1-4) f

This course involves project planning, use and care of common hand tools, wood finishing, characteristics and uses of common woods, types and uses of hardware and fasteners, and wood lathe turning. Experiences in some elementary wood machines with emphasis on wood lathe turning.

Mr. Ford

IA 108 GENERAL WOODWORK

3 (1-4) s

Prerequisite: IA 107

Use of woodworking machine tools. Production and selection of projects adapted to available material and practical processes. New techniques in woodworking processes. Emphasis will be given to new tools, materials and processes in wood.

Mr. Ford

IA 203 PRACTICAL DRAFTING

2 (1-2) s

Required of students in Wild Life and Furniture Manufacturing

The application of drawing practices for the layman. Freehand sketching and instrument drawings, lettering, pictorial representation, production sketches, template drawing, exploded views, shades and shadows. Individual problems and selected graphic representation.

Mr. Troxler

IA 205 INDUSTRIAL ARTS DESIGN

2 (1-2) f

Prerequisites: IA 103, 104

Design and construction in a variety of industrial materials, stressing individual expression and appreciation of well designed industrial materials.

Mr. Troxler

IA 206 GENERAL METALWORK

3 (1-4) f

Basic operations and processes in bench metal, foundry, arc and acetylene welding, metal lathe and art metalwork, and a study of metals including their properties and uses.

Mr. Massey

IA 207 GENERAL METALWORK

3 (1-4) s

Basic operations and processes in sheet metal, forging, lathe work, milling machine, shaper work, precision grinding, and a study of the mass production techniques.

Mr. Massey

IA 215 SHEET METAL

1 (0-2) f

Prerequisite: ME 102

A course designed to give students in the Heating and Air Conditioning curriculum of the Mechanical Engineering Department practical experience in sheet metal process, tools, operations, machines, and materials pertaining to duct work.

Mr. Massey

IA 230 HOME MECHANICS

2 (1-2) f s

A course designed to provide information and experience in tools, materials and processes essential in the care, maintenance, and the repair of a home and home equipment. Emphasis will be placed on the development of "handy man" abilities.

Staff

INDUSTRIAL ARTS

IA 304 GENERAL SHOP ORGANIZATION

2 (1-2) f

Prerequisites: IA 104, 108, 207

This course is designed to help the student in teacher education to select, develop and organize subject matter suitable for the general shop and to provide understanding of the place of the general shop in the public schools.

Mr. Hostetler

IA 306 GRAPHIC ARTS

3 (1-4) s

A course designed to give the student experience in the basic operations and processes and to provide related information in letterpress printing, block printing, silk screen printing, book binding, offset printing and photography.

Mr. Ford

IA 307 GENERAL ELECTRICITY

3 (1-4) f

The fundamentals of electricity as applied to magnetism, electromagnetism, heat and power will be emphasized. Repair of common household appliances and the construction of well made electrical projects are required.

Mr. Young

IA 308 INDUSTRIAL ARTS ELECTRONICS

3 (1-4) s

This course includes the fundamentals of electricity as applied to electronics. Emphasis in the course is placed on a study of the various applications of the vacuum tubes, especially radio communications along with a study of semi-conductors.

Mr. Young

IA 314 RECREATIONAL ARTS AND CRAFTS

2 (1-2) s

Required of juniors in Industrial and Rural Recreation; elective for others.

A course designed to give students interested in recreational work an understanding of and experiences in different types of arts and crafts. Emphasis will be given to a wide variety of crafts as adaptable to camps, city, industrial and institutional programs.

Staff

IA 315 GENERAL CERAMICS

3 (1-4) f s

This course is designed to give the student an opportunity to work with ceramic materials as a medium of expression and to get experience in the basic manufacturing processes of the ceramic industry. Emphasis will be given to a study of the sources of clay, designing, forming, decorating and firing of ceramic products.

Mr. Hostetler

IA 320 TOOLS AND MATERIALS

2 (1-2) f

A study of the care and maintenance of hand and machine tools and of the sources, manufacture, characteristics, uses and costs of industrial materials and products.

Mr. Troxler

IA 321 METALWORK TECHNOLOGY

2 (1-2) f s

Prerequisites: IA 206, 207 or equivalent

This course is designed to give the student additional theory and skills in metalworking operations and processes. Emphasis will be on the metal lathe, metal shaper and milling machine.

Mr. Massey

ED 100 INTRODUCTION TO INDUSTRIAL EDUCATION

2 (2-0) f

The place of vocational education in a program of public education and the fundamental principles upon which this work is based.

ED 422 METHODS OF TEACHING INDUSTRIAL SUBJECTS

4 (4-0) s

Prerequisites: ED 344, PSY 304

A study of effective methods and techniques of teaching industrial subjects. Emphasis is given to class organization; student-teacher planning; methods of teaching manipulative skills and related information; lesson planning; shop safety, and evaluation. Teaching problems will be studied and analyzed following directed observations in the public schools.

Mr. Hostetler

ED 440 VOCATIONAL EDUCATION

2 (2-0) f

Prerequisites: ED 344, PSY 304

A comprehensive study of the types of vocational education of less than college grade, provided for through Federal legislation; an evaluation of the effectiveness of the program; and a detailed study of the North Carolina Plan.

Staff

ED 444 STUDENT TEACHING IN INDUSTRIAL SUBJECTS

6 (2-15) f

Prerequisite: ED 422

Students in the Industrial Arts and Industrial Education curricula will devote ten weeks during the fall semester to full time, off-campus student teaching in selected public schools throughout the State. They will be assigned to their teaching center in the preceding spring and will report to their supervising teachers when the public schools (to which they are assigned) open in the fall. During the remainder of the term, additional courses will be taken in concentrated form.

Staff

IA 460 GENERAL SHOP

3 (1-4) s

Prerequisite: ED 444 or permission of instructor

A course designed to give the student the opportunity to strengthen weakness both in skills and teaching methods which became apparent during his term of student teaching. Emphasis will be given to the organization, administration, content and methods of the general shop. Opportunity will also be given to develop good general shop project ideas.
Mr. Hostetler

ED 482 CURRICULUM PROBLEMS IN INDUSTRIAL ARTS

2 (1-2) f

Prerequisites: PSY 304 or six credits in Education

Approximately one-third of the course is directed to developing a working philosophy of industrial arts and the major portion of the course is devoted to planning and organizing learning units in industrial arts.

Mr. Young

ED 483 INSTRUCTIONAL AIDS AND DEVICES

2 (1-2) f

Prerequisites: PSY 304 or six credits in Education

Analysis of learning units and the preparation of instructional aids and devices.

Messrs. Hostetler, Young

IA 484 SCHOOL SHOP PLANNING AND EQUIPMENT SELECTION

3 (3-0) s

A course for advanced undergraduate students

The physical planning of school shops and laboratories; selection of tools and equipment. Whenever possible, actual or contemplated school buildings will be used for class work.
Mr. Hostetler

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

IA 510 DESIGN FOR INDUSTRIAL ARTS TEACHERS

3 (1-4)

Prerequisites: 6 hours of Drawing and IA 205 or equivalent

A study of new developments in the field of design with emphasis on the relationship of material and form in the selection and designing of industrial arts projects.

Graduate Staff

ED 516 COMMUNITY OCCUPATIONAL SURVEYS

2 (2-0) s

Prerequisites: Six credits in Education and consent of instructor

Methods in organizing and conducting local surveys and evaluation of findings in planning a program of vocational education.

Graduate Staff

ED 521 ORGANIZATION OF RELATED STUDY MATERIALS

2 (2-0) f s

Prerequisite: ED 422

The principles of selecting and organizing both technical and general related instructional material for trade extension and diversified occupations classes.

Graduate Staff

ED 525 TRADE ANALYSIS AND COURSE CONSTRUCTION

2 (2-0) f

Prerequisites: ED 344, PSY 304

Principles and practices in analyzing occupations for the purpose of determining teaching content. Practice in the principles underlying industrial course organization based on occupational analysis covering instruction in skills and technology and including course outlines, job sequences, the development of industrial materials and instructional schedules.

Graduate Staff

ED 527 PHILOSOPHY OF INDUSTRIAL EDUCATION

2 (2-0) s

Prerequisites: ED 344, PSY 304

A presentation of the historical development of industrial education; the philosophy of vocational education; study of Federal and State legislation pertaining to vocational education; types of programs, trends and problems.

Graduate Staff

ED 528 PRINCIPLES AND PRACTICES IN DIVERSIFIED OCCUPATIONS

2 (2-0) f s

Prerequisite: ED 422

A study of the development, the objectives, and principles of diversified occupations. The organization, promotion and management of programs in this area of vocational education.

Graduate Staff

ED 552 INDUSTRIAL ARTS IN THE ELEMENTARY SCHOOL

3 (1-4) summer

See description on page 202.

INDUSTRIAL ARTS

IA 570 LABORATORY PROBLEMS IN INDUSTRIAL ARTS

**A maximum of
6 credits**

Prerequisites: Senior standing and permission of instructor
Courses based on individual problems and designed to give advanced majors in industrial arts education the opportunity to broaden or intensify their knowledge and abilities through investigation and research in the various fields of industrial arts, such as metals, plastics, or ceramics.

IA 575 SPECIAL PROBLEMS IN INDUSTRIAL ARTS

**A maximum of
6 credits**

Prerequisite: One term of student teaching or equivalent
The purpose of these courses is to broaden the subject matter experiences in the areas of industrial arts. Problems involving experimentation, investigation and research in one or more industrial arts areas will be required.

Graduate Staff

IA 580 MODERN INDUSTRIES

2 (2-0) s

Prerequisites: Twelve credits in Industrial Arts and consent of the instructor
A course for experienced teachers, administrators and supervisors of industrial arts. Elective course for advanced undergraduate and graduate students in industrial arts. Designed to assist teachers in guiding students to sources of information relative to various modern industries.

Mr. Young

ED 595 INDUSTRIAL ARTS WORKSHOP

3 (3-0) summer

Prerequisite: One or more years of teaching experience
A course for experienced teachers, administrators and supervisors of industrial arts. The primary purpose will be to develop sound principles and practices for initiating, conducting and evaluating programs in this field. Enrollees will pool their knowledge and practical experiences and will do intensive research work on individual and group problems. (Offered in Summer School Only)

Mr. Hostetler

COURSES FOR GRADUATES ONLY

ED 610 ADMINISTRATION AND SUPERVISION OF VOCATIONAL EDUCATION

2 (2-0) f s

Prerequisites: PSY 304, ED 344, 420, 440, or equivalent
Administrative and supervisory problems of vocational education; practices and policies of Federal and State offices; organization and administration of city and consolidated systems.

Graduate Staff

ED 614 MODERN PRINCIPLES AND PRACTICES IN SECONDARY EDUCATION

2 (2-0) f s

Prerequisite: Twelve hours in Education
Foundations of modern programs of secondary education; purposes, curriculum, organizing, administration, and the place and importance of the high school in the community in relation to contemporary social force.

Graduate Staff

ED 619 SEMINAR IN INDUSTRIAL ARTS EDUCATION

1-1

Prerequisite: Graduate standing
Reviews and reports on special topics of interest to students in industrial arts education.

Mr. Hostetler

ED 624 RESEARCH IN INDUSTRIAL ARTS EDUCATION

A maximum of 6 credits

Prerequisites: Eighteen credits in Education and permission of instructor
The student will be guided in the selection of one or more research problems and in the organization of the problems, methods of gathering data, procedure for analyzing data, and best practice for interpreting and reporting data.

Mr. Hostetler

ED 627 RESEARCH IN INDUSTRIAL EDUCATION

A maximum of 6 credits

Prerequisites: Eighteen credits in Education and permission of instructor
The student will be guided in the selection of one or more research problems and in the organization of the problems, methods of gathering data, procedure for analyzing data, and best practice for interpreting and reporting data.

Graduate Staff

INDUSTRIAL ENGINEERING

ED 630 PHILOSOPHY OF INDUSTRIAL ARTS

2 (2-0) f s

Prerequisite: Twelve hours in Education

Required of all graduate students in Industrial Arts Education

Current and historical developments in industrial arts; philosophical concepts, functions, scope, criteria for the selection and evaluation of learning experiences, laboratory organization, student personnel programs, community relationships, teacher qualifications, and problems confronting the industrial arts profession.

Mr. Hostetler

ED 635 ADMINISTRATION AND SUPERVISION OF INDUSTRIAL ARTS

2 (2-0) f s

Prerequisite: Twelve hours in Education

A study of the problems and techniques of administration and supervision in the improvement of industrial arts in the public schools. Selection of teachers and their improvement in service and methods of evaluating industrial arts programs.

Mr. Hostetler

INDUSTRIAL ENGINEERING

IE 201 INDUSTRIAL ENGINEERING I

3 (3-0) f s

Prerequisite: Sophomore standing

An intensive and integrated study of the factory as a producing unit. History of manufacturing; organization structure; analysis of products; establishment and evaluation of processes; motion study; plant layout, production planning, scheduling and control. Course will include solution of case problems and plant visits.

IE 202 INDUSTRIAL ENGINEERING II

3 (3-0) f s

Prerequisite: IE 201

Continuation of IE 201.

IE 217 MACHINE TOOLS

1 (0-2) f s

Prerequisite: Sophomore standing

One session two hours each week consisting of lecture, demonstrations and student projects. Dimensional control, press forming, power cutting of metals including turning, milling, shaping and finishing. Selection and use of cutting tools, speeds and feeds.

IE 218 METAL FORMING

1 (0-2) f s

Prerequisite: Sophomore standing

One session two hours each week consisting of lecture, demonstrations and outside assignments. Survey of: metals, pattern making, foundry practice, die and permanent mold casting, forging, gas cutting, gas and arc welding.

IE 224 WOOD WORKING EQUIPMENT

3 (2-3) s

Classwork covers the description of cutting, sanding and assembly equipment and an explanation of the type of operation done by each kind of equipment. The theory of cutting and sanding and cutterhead and saw design are covered. Laboratory work consists of setting up, operating and maintaining typical furniture production equipment supplemented by visits to furniture plants.

IE 241 WELDING LABORATORY

1 (0-3) f s

Prerequisite: IE 218 or permission of instructor

A study of mechanization as applied to oxygen cutting, to the various types of shielded metal arcs and to gas welding. Jigs, fixtures and positioners. Selection of welding process. Joint design and welding costs. Welds and stress distribution.

IE 269 WELDING AND PIPE SHOPWORK

1 (0-3) f s

Required of sophomores in Heating and Air Conditioning

Fundamentals of welding, both arc and gas, cutting equipment; safety in the use of equipment; application of low temperature and non-ferrous alloys; cutting, threading, reaming and erection of iron pipe; copper tubes and fittings in heating and air conditioning work.

IE 301 ENGINEERING ECONOMY

2 (2-0) f s

Prerequisite: Junior standing

Economics of industrial enterprises. Evaluation of alternatives. Time value of money. Concepts of incremental cost and economic break-even point. Capital investment, depreciation, useful life, sunk cost. Equipment replacement and modernization. Investment criteria under conditions of uncertainty.

IE 303 INDUSTRIAL ENGINEERING III

4 (3-3) f

Prerequisite or co-requisite: IE 202

An intensive and integrated course in methods of obtaining maximum effectiveness from the human resources used in the factory: principles of personnel administration; time study and rate setting; job evaluation and wage incentives; principles of control of labor and other costs.

IE 304 INDUSTRIAL ENGINEERING IV

4 (3-3) s

Prerequisite: IE 303

Continuation of IE 303.

INDUSTRIAL ENGINEERING

IE 310 INDUSTRIAL SAFETY

2 (2-0) f s

A course in the causes and prevention of industrial accidents.

IE 322 FURNITURE DESIGN AND CONSTRUCTION

2 (0-6) f

An introduction to furniture drawing and construction. Detailed drawings and bills of material are made by the students from samples and from designers sketches. In construction, emphasis is placed upon satisfactory performance under variable atmospheric moisture, upon adequate strength and rigidity and upon low cost.

IE 326 FURNITURE MANUFACTURE AND PROCESSING

4 (3-3) s

Prerequisite: IE 322; corequisite: IE 332

A study of the production methods of the Furniture Industry. Class work includes the production procedures from the yard through the machine, cabinet, finishing, upholstery and shipping departments. The laboratory period is supplemented by visits to furniture plants. Particular attention is paid to production rates by departments, based on number of men and supervisors, the quality of product produced and equipment used.

IE 327 FURNITURE MARKETING

2 (2-0) s

Study of basic factors bearing on selection of ideal location, equipment and organization to serve a specific market with a specific furniture product, and selection of ideal market and product for a specific factory. In addition to lectures, each student will select one project for which he will work out a solution for correlating product and market.

IE 328 MANUFACTURING PROCESSES

3 (2-3) f

Prerequisites: IE 217, 218

The basic processes of conversion of raw materials into producer and consumer goods. The cost reduction aspects of machine tools, jigs and fixtures in volume production. Study of industrial trends to meet needs of an expanding economy. Selected problems illustrating a wide variety of manufacturing situations.

IE 332 MOTION AND TIME STUDY

4 (3-3) f s

Prerequisite: Junior standing

Corequisite: EC 425

Principles and techniques of motion and time study; detailed study of charting operator movements; micromotion study. Predetermined time data and its applications; stopwatch time study with emphasis on rating, allowances and standard data theory and practice.

IE 334 MOTION AND TIME STUDY

3 (0-3) f

A course designed for non-industrial engineering students. Principles and techniques of motion and time study. Types and uses of predetermined time systems; stopwatch time study, principles and methods of rating, application of allowances and standard data.

IE 341 FURNITURE PLANT LAYOUT AND DESIGN

3 (2-3) f

Prerequisite: IE 326

Problems in industrial plant design with special reference to furniture manufacture; building structures, equipment location, space utilization, layout for operation and control; allied topics in power utilization, light, heat, ventilation and safety. Laboratory period.

IE 343 PLANT LAYOUT AND MATERIALS HANDLING

4 (3-3) s

Prerequisites: IE 328, IE 332

Problems in plant arrangement and layout to obtain most effective utilization of men, materials and machines as related to space and costs. Includes consideration of heat, light, ventilation, organization, control, material flow and handling, working conditions, safety and other factors as they affect the most satisfactory layout of the plant.

IE 346 FURNITURE DESIGN AND CONSTRUCTION II

2 (2-0) f

Prerequisite: IE 322

Lecture and laboratory work on the design and construction of modern and period furniture. The course emphasizes construction features that are economical of labor and materials and are adaptable to mass production. Students are required to complete an original design and detailed drawing of a piece of furniture as one requirement of the course.

IE 401 INDUSTRIAL ENGINEERING ANALYSIS

3 (3-0) f

Prerequisite: IE 304, MA 401, MA 405, ST 362

An introductory course in some of the more recently developed operations research techniques; applications of analysis of variance, multiple correlation and other statistical methods, queueing theory, linear programming; graphical methods of solutions; information theory and servomechanisms in Industrial Engineering. A balance will be sought between theory and practical applications.

IE 402 INDUSTRIAL ENGINEERING ANALYSIS**3 (3-0) s**

Prerequisite: IE 401
Continuation of IE 401.

IE 408 PRODUCTION CONTROL**3 (2-3) f**

Prerequisite: Senior standing
Planning, scheduling and dispatching of production in manufacturing operations; conversion of sales requirements into production orders; construction of production budgets and their relation to labor, materials and machines; laboratory project involving the development and operation of the production control system of a typical plant.

IE 425 SALES AND DISTRIBUTION METHODS**2 (2-0) s**

An analysis of the distribution of industrial and consumer products; the effect of increased productivity on sales and distribution channels; development and marketing of new products; merchandising and packaging. Sales training and sales engineering programs.

IE 430 JOB EVALUATION AND WAGE ADMINISTRATION**3 (2-3) s**

Prerequisite: Senior standing
Job analysis, classification and specification. Grading, ranking, factor comparison and point systems of job evaluation in determining equitable rates for job content. Wage surveys and merit rating. Utilization of time standards in design, installation and operation of financial incentive plans. Comparison of various wage and salary plans. Effect of wage payment methods on industrial relations practices.

IE 443 QUALITY CONTROL**3 (2-2) f**

Prerequisite: ST 361
Economic balance between cost of quality and value of quality, and techniques for accomplishing this balance. Organization for, specification and utilization of quality controls. Statistical theory and analyses as applied to sampling, control charts, tolerance determination, acceptance procedures and control of production.

IE 451, 452 SEMINAR**1 (1-0) f s**

A weekly meeting of senior students to assist the transition from a college environment to that of industry. Lectures, problems, presentation of papers and outside speakers. Employment practices and procedures useful in job finding.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES**IE 515 PROCESS ENGINEERING****3 (3-0)**

Prerequisite: IE 408, 443
The technical process of translating product design into a manufacturing program. The application of industrial engineering in the layout, tooling, methods, standards, costs and control functions of manufacturing. Laboratory problems covering producer and consumer products.

IE 517 AUTOMATIC PROCESSES**3 (3-0) s**

Prerequisites: IE 408, 443
Principles and methods for automatic processing. The design of product, process and controls. Economic, physical and sociological effects of automation.

IE 519 DISTRIBUTION ENGINEERING**3 (3-0)**

Prerequisite: IE 408
The application of the Industrial Engineering principles and techniques of time study, methods analysis, materials handling, standards and controls to the field of distribution. Collection, analysis and interpretation of data and case studies in the retailing, wholesaling, transportation, warehousing and service fields.

IE 521 CONTROL SYSTEMS AND DATA PROCESSING**3 (3-0) s**

Prerequisites: IE 408, 443
This course is designed to train the student in the problems and techniques required for systematic control of the production process and the business enterprise. This includes training in the determination of control factors; the collection and recording of data; and the processing, evaluation and use of data. The course will illustrate the applications and use of data processing equipment and information machines in industrial processes. The course will train the student in the design of systems to facilitate the above requirements with most effective utilization of time, money and space. Case problems will be used extensively.

IE 543 STANDARD DATA**3 (3-0) f**

Prerequisite: ST 361 or ST 515, one course in motion and time study
Theory and practice in developing standard data from stopwatch observations and predetermined time standards; methods for estimating delays and other allowances. Problems created by correlation relationships among motions and elements. Application of standard data in cost control and production planning and scheduling.

LANDSCAPE ARCHITECTURE

IE 551 STANDARD COSTS FOR MANUFACTURING

3 (3-0) s

Prerequisites: One course in accounting and one course in motion and time study
The development, application and uses of standard costs as a management tool; use of industrial engineering techniques in establishing standard costs for labor, material and overhead. Analysis of variances. Budgets as cost controls. Measures of management performance.

IE 581 PROJECT WORK

2 (0-6) f s

Investigation and report on an assigned problem for students enrolled in the fifth-year curriculum in Industrial Engineering.
Course limited to graduate students.

IE 635 PLANNING FOR PRODUCTION

3 (3-0)

Prerequisite: IE 408, 443

A study of the factors to be considered in developing an effective and realistic plan of production for a manufacturing company; analyses of sales demands, market trends and business conditions. Construction of long range production schedules and finished good inventory controls; planning for material purchasing, equipment acquisition and labor requirements; economic and cost factors of inventory turnover rates.

IE 651, 652 SPECIAL STUDIES IN INDUSTRIAL ENGINEERING

Credits by arrangement

The purpose of this course is to allow individual student or small groups of students to take on studies of special areas in Industrial Engineering which fit into their particular program and which may not be covered by existing industrial engineering graduate level courses. The work would be directed by a qualified staff member who had particular interest in the area covered by the problem. Such problems may require individual research and initiative in the application of industrial engineering training to new areas or fields.

IE 671, 672 SEMINAR

1 (1-0) f s

Seminar discussion of industrial engineering problems for graduate students. Case analyses and reports.

IE 691 INDUSTRIAL ENGINEERING RESEARCH

2 to 6 f s

Graduate research in Industrial Engineering for thesis credit.

LANDSCAPE ARCHITECTURE — — — — —

COURSES FOR UNDERGRADUATES

LA 212 LANDSCAPE CONSTRUCTION I

3 (3-3) s

The physical elements of landscape design; earth work, structures, preparation of grading and master construction plans. Design of the horizontal and vertical alignment of roads and earth work quantity estimates.

Mr. Clarke

LA 301, 302 LANDSCAPE DESIGN I, II

6 (0-12) f s

Prerequisite: DN 202

Required of all third year students in Landscape Architecture
Landscape origination, investigation, and analysis as applied to design problems. Space concepts in area design.

Mr. Clarke

LA 311, 312 LANDSCAPE CONSTRUCTION AND MATERIALS I, II

4 (2-6) f s

Prerequisite: DN 202

Required of all third year students in Landscape Architecture
Landscape structures, materials and land form, as a continuation and application of construction course in Civil Engineering (CE 101, 102).

Mr. Thurlow

LA 401, 402 LANDSCAPE DESIGN III, IV

6 (0-12) f s

Prerequisite: LA 302

Required of all fourth year students in Landscape Architecture
Area design continued and related to planting and construction courses. Larger scale landscape design and site planning. Introduction to regional problems.

Mr. Clarke

LA 421, 422 PLANTING DESIGN

4 (2-6) f s

Prerequisites: HRT 202, LA 302, 312

Required of all fourth year students in Landscape Architecture
The appraisal of plants as objects of design and their orderly arrangement for landscape effect. Techniques for recording designs, specifications, and cost estimates.

Mr. Thurlow

LA 501, 502 LANDSCAPE DESIGN V, VI

8 (0-12) f 9 (0-12) s

Prerequisite: LA 402

Required of all fifth year students in Landscape Architecture
Area design continued. The rural and urban landscape.

Mr. Clarke

COURSES FOR UNDERGRADUATES

MA 101 FIRST YEAR MATHEMATICS FOR ENGINEERS

5 (4-2) f s

Rectangular coordinates, functions and graphs, linear equations and determinants, quadratic equations, inequalities, systems of equations involving quadratics, proportion and variation, binomial theorem, progressions, logarithms, exponential and logarithmic curves, trigonometric functions of general angle, derivation of trigonometric identities and formulas, the solution of plane triangles, with practical applications, slide rule.

MA 102 FIRST YEAR MATHEMATICS FOR ENGINEERS

4 (3-2) f s

Prerequisite: MA 101

Radian measurement of angles, trigonometric curves, inverse trigonometric functions, trigonometric equations, complex numbers, theory of equations, loci of equations, the straight line, circle, parabola, ellipse, hyperbola, the general equation of second degree curve sketching, polar coordinates, parametric equations, curve fitting, coordinates in space, planes, lines and surfaces.

MA 111 ALGEBRA AND TRIGONOMETRY

4 (3-2) f s

Exponents and radicals, fractions, quadratic equations in one and two unknowns, radical equations, logarithms, progressions, binomial theorem, solution of higher degree equations by linear interpolation, the trigonometric functions, the solution of right triangle by tables and slide rule, simple identities and equations, the oblique triangle.

MA 112 ANALYTIC GEOMETRY AND CALCULUS A

4 (3-2) f s

A unified course, beginning with elementary ideas in analytic geometry and calculus, with the introduction of additional work in trigonometry where needed; rectangular and polar coordinate systems, fundamental locus problems, lines and conic sections, curve tracing, the derivative, with applications to geometry and simple practical problems.

MA 122 MATHEMATICS OF FINANCE AND ELEMENTARY STATISTICS

4 (3-2) f s

Prerequisite: MA 111

Simple and compound interest, annuities and their applications to amortization and sinking fund problems, installment buying, calculation of premiums of life annuities and life insurance, elementary statistics.

MA 201 CALCULUS I

4 (3-2) f s

Prerequisite: MA 102

A course in the fundamentals of the calculus including the formulas for differentiation and for differentials; the integrals of polynomial functions; applications to geometry, maxima and minima, areas, volumes, moments of area, work, fluid pressure; related rates, rectilinear and curvilinear motion; Newton's method of approximation of roots.

MA 202 CALCULUS II

4 (3-2) f s

Prerequisite: MA 201

Methods of integration; definite integral with applications to length of arc, surface area, volumes, centroids and moments of inertia; Simpson's rule; indeterminate forms, infinite series, expansion of functions, hyperbolic functions, partial differentiation; multiple integration.

MA 211, 212 ANALYTIC GEOMETRY AND CALCULUS B, C

3 (2-2) f s

Prerequisite: MA 112

An integrated course in the fundamentals of calculus, including formal differentiation and integration. Basic applications to geometry, rates, maxima and minima, areas, volumes, first and second moments and centroids are included. Additional topics from analytic geometry, not covered in MA 112, are introduced as needed as a basis for calculus.

COURSES FOR ADVANCED UNDERGRADUATES

MA 401 DIFFERENTIAL EQUATIONS I

3 (3-0) f s

Prerequisite: MA 202

First order equations with variables separable; Euler's method of approximate solution; physical and geometrical applications. Linear equations of first order; applications. Linear equations of higher order with constant coefficients, solution by repeated linear first order equations, variation of parameters, underdetermined coefficients, operators. Systems of equations; scaling variables, applications to networks and dynamical systems. Introduction to series-solutions; solutions by use of analog computer; non-linear differential equations; dimensional analysis.

MA 402 THEORY OF EQUATIONS

3 (3-0) f

Prerequisite: MA 202 (One year of calculus)

Algebraic equations; isolation of roots, numerical approximations to roots, the Graeffe method; application of approximation procedures to transcendental equations; systems of linear equations, determinants and introduction to matrix theory.

MATHEMATICS

MA 403 FUNDAMENTAL CONCEPTS OF ALGEBRA

3 (3-0) f

Prerequisite: MA 202 (One year of calculus)

Integers; integral domains; rational numbers; fields, rings; groups, vectors and vector spaces; linear transformations; matrices.

MA 404 FUNDAMENTAL CONCEPTS OF GEOMETRY

3 (3-0) s

Prerequisite: MA 202 (One year of calculus)

Foundations of geometry; laws of logic; introduction to topology; affine geometry; geometric transformations; homogeneous coordinates; comparison of Euclidean and non-Euclidean Geometry.

MA 405 INTRODUCTION TO DETERMINANTS AND MATRICES

3 (3-0) f s

Prerequisite: MA 202

Properties of determinants; differentiation; products; theorems of Laplace and Jacobi; systems of linear equations. Elementary operations with matrices; inverse rank, characteristic roots and eigenvectors. Introduction to algebraic forms.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

MA 501 NUMERICAL ANALYSIS I

3 (3-0) f

Prerequisite: MA 401

Construction of scales to represent functions and their use in the construction of networks and nomographs; theory of least squares and curve fitting, including periodic functions; interpolation formulas of Newton, Gauss, Lagrange, Bessel, and Stirling with applications to numerical differentiation and integration; the error curve and some of its applications.

Mr. Park

MA 502 NUMERICAL ANALYSIS II

3 (3-0) s

Prerequisite: MA 501, MA 511

Analysis of errors in basic interpolation formulas; elementary difference equations; approximation by Legendre polynomials; Gaussian quadrature; various numerical methods for solving ordinary and partial differential equations.

Mr. Park

MA 511 ADVANCED CALCULUS I

3 (3-0) f s

Prerequisite: MA 401

Continuity; Taylor's series with remainder; infinitesimals; differentials; review of convergence tests for infinite series, hyperbolic functions; partial differentiation; directional derivatives; implicit functions; Jacobians; elements of differential geometry, differentiation of integrals; improper integrals. Application to problems in engineering.

Graduate Staff

MA 511a ADVANCED CALCULUS A

3 (3-0) f

Prerequisite: MA 202 (One year of calculus)

Sequences; continuity of functions; functions of several variables; partial differentiation and applications to maxima and minima; integration; differentiation of integrals; improper integral; Jacobians; series; gamma, beta, and error functions. Applications to problems in statistics and economics.

Graduate Staff

MA 512 ADVANCED CALCULUS II

3 (3-0) s

Prerequisite: MA 511

Gamma and beta functions; line, surface, and space integrals; Green's theorem; Stoke's theorem; expansion of functions in Fourier series, applications to boundary value problems; introduction to the theory of functions of a complex variable, including simple mapping problems, contour integration and residue theory; elliptic integrals.

Graduate Staff

MA 514 BOUNDARY VALUE PROBLEMS

3 (3-0) f

Prerequisite: MA 512

Ordinary homogeneous and non-homogeneous differential equations with boundary values; elements of partial differential equations; applications of Fourier series and other methods to the solutions of certain boundary value problems in partial differential equations; harmonic functions.

Mr. Mumford

MA 521 ADVANCED GEOMETRY

3 (3-0) f

Prerequisite: MA 202 (One year of calculus)

Coordinates in space; direction angles and cosines; planes, lines, points; matrices; surfaces and curves; quadric surfaces; transformations; analysis of general equation of degree 2; matrix algebra and its applications; introduction to algebraic geometry.

Messrs. Clarkson, Nahikian

MA 522 THEORY OF PROBABILITY

3 (3-0) s

Prerequisite: MA 401

Definitions, discrete and continuous sample spaces, combinatorial analysis, Stirling's formula, simple occupancy and ordering problems, conditional probability, repeated trials, compound experiments, Bayes' theorem, binomial, Poisson and normal distributions, the probability integral, random variables, expectation.

Messrs. Clarkson, Levine

MA 532 DIFFERENTIAL EQUATIONS II

3 (3-0) s

Prerequisite: MA 401

Solution of second order linear equations with variable coefficients; exact equations; Green's function; singular points and series solutions; Bessel function, Legendre polynomials, and other special functions defined by ordinary differential equations; approximate methods; introduction to partial differential equations.

Graduate Staff

MA 533 HISTORY OF MATHEMATICS

3 (3-0) s

Prerequisite: MA 202 (One year of calculus)

Elective

Evolution of the number system; trends in the development of modern mathematics; lives and contributions of outstanding mathematicians.

Mr. Nølstad

MA 535 AN INTRODUCTION TO COMPUTERS

3 (3-0) f s

Prerequisite: MA 401 and any other advanced course

The elements of number systems and commonly used machine codes; fundamental coding and programming techniques for the IBM 650. Selected problems are subjected to numerical and error analysis and solved on the IBM 650. The elements of the theory and applications of the analog computer; solutions of certain differential systems on the Donner analog computer.

Messrs. Caldwell, Tompkins

MA 541 VECTOR ANALYSIS

3 (3-0) f s

Prerequisite: MA 401

The algebra of vectors and dyadics; elementary space geometry in vector form; scalar and vector differentiation of scalar; vector and dyadic functions; curvilinear coordinates; line, surface, and volume integrals; integral transformations; applications.

Messrs. Harrington, Winton

COURSES FOR GRADUATES ONLY

MA 602 PARTIAL DIFFERENTIAL EQUATIONS

3 (3-0) s

Prerequisite: MA 512

Partial differentiation, functional dependence, envelopes, eliminants, Lagrange's equation, general and complete integrals, non-linear equations of first and higher orders; Fourier series with applications to problems in vibrations, heat and fluid flow, electricity; boundary value problems.

Mr. Mumford

MA 605 NON-LINEAR DIFFERENTIAL EQUATIONS

3 (3-0) f

Prerequisites: MA 512, MA 532

Non-linear differential equations associated with important physical systems; contrasts with linear systems; use of phase plane diagrams and other geometrical methods of analysis; approximate solutions by perturbation, Fourier series, slow variations of amplitude and phase, linearized equations, and computer methods; study of limit cycles and stability.

Mr. Harrington

MA 611 COMPLEX VARIABLE THEORY AND APPLICATIONS I

3 (3-0) f

Prerequisite: MA 512

Elementary functions; analytic functions and Cauchy-Riemann equations; conformal mapping and applications; Taylor and Laurent series; contour integration and residue theory; the Schwarz-Christoffel transformation.

Messrs. Bullock, Mumford

MA 612 COMPLEX VARIABLE THEORY AND APPLICATIONS II

3 (3-0) s

Prerequisite: MA 611

Conformal mapping and applications to flow phenomena; multiple-valued functions and Riemann surfaces; further applications of residue theory; analytic continuation; infinite series and asymptotic expansions; elliptic functions and other special functions in the complex domain; structure of functions.

Mr. Bullock

MA 622 VECTOR SPACES AND MATRICES

3 (3-0) s

Prerequisite: MA 511

Introduction to matrices; vector spaces; equivalence, rank, inverse of matrices; determinants, congruence; quadratic forms; polynomials over a field; similarity; characteristic roots.

Messrs. Nahikian, Park

MATHEMATICS AND SCIENCE EDUCATION

MA 632 OPERATIONAL MATHEMATICS I

3 (3-0) f

Corequisite: MA 611 or consent of instructor

Laplace transform with theory and application to problems in ordinary and partial differential equations arising from engineering and physics problems; Fourier integral and Fourier transforms and applications.

Mr. Cell

MA 633 OPERATIONAL MATHEMATICS II

3 (3-0) s

Prerequisite: MA 632

Extended development of the Laplace and Fourier transforms and their uses in the solution of problems in ordinary and partial differential equations and in difference equations; Sturm-Liouville systems; advanced theory in ordinary and partial differential equations.

Mr. Cell

MA 635 MATHEMATICS OF COMPUTERS

3 (3-0) s

Prerequisite: MA 512, 535

Corequisite: MA 622

The development of methods for the solution of selected problems involving matrices; integral rational equations; ordinary and partial differential equations. Particular attention is paid to the question of convergence and stability; examples solved on the IBM 650.

Mr. Caldwell

MA 641 CALCULUS OF VARIATIONS

3 (3-0) f

Prerequisite: MA 512

The simplest problem of the calculus of variations in details; variable endpoints; iso-perimetric problems; Hamilton's principle; least action principle; introduction to the theory of linear integral equations of the Volterra and Fredholm types.

Mr. Winton

MA 651 EXPANSION OF FUNCTIONS

3 (3-0) f

Prerequisites: MA 611, 633 or consent of instructor

Expansion of functions of one or more variables in Taylor's series; asymptotic series, infinite products, partial fractions, continued fractions, series of orthogonal functions; applications in ordinary and partial differential equations, difference equations and integral equations.

Messrs. Cell, Harrington

MA 661 TENSOR ANALYSIS I

3 (3-0) f

Prerequisites: MA 512, 541

Recommended (but not required) MA 521, 602, 622

The basic theory; tensor algebra, tensor calculus; invariant theory; quadratic differential forms; covariant differentiation, curvature tensor; geometric applications, Riemannian spaces, parallelism, geodesics, normal coordinates; generalized vector analysis; physical applications: dynamics, Lagrange's equations, generalized coordinates; the geometry of dynamics; kinematic and action line elements, holonomic and non-holonomic systems; configuration space, dynamics in n-dimensions.

Mr. Levine

MA 662 TENSOR ANALYSIS II

3 (3-0) s

Prerequisite: MA 661

Continuation of physical applications. Elasticity; finite strains, equations of compatibility, strain invariants, stress tensor, equations of motion, generalized Hooke's law, isotropic stress-strain relations; hydrodynamics; perfect fluids, viscous fluids, viscosity tensor; equations of motion, electro-magnetic theory; Maxwell's equations, plane waves, stress-energy tensor; relativity: Lorentz transformation, field equations, Schwarzschild solution, planetary orbits.

Mr. Levine

MA 681 SPECIAL TOPICS IN MATHEMATICS

3 (3-0) f s

Prerequisites: Graduate standing and consent of instructor

Elective

This course provides an opportunity for small groups of graduate students to study, under the direction of qualified members of the professional staff, advanced topics in their special fields of interest.

Graduate Staff

MA 691 RESEARCH IN MATHEMATICS

Credits by arrangement

Prerequisite: Graduate standing and approval of adviser

Individual research in the field of mathematics.

MATHEMATICS AND SCIENCE EDUCATION — — — — —

ED 203 AN INTRODUCTION TO TEACHING

2 (2-0) s

A course designed to aid prospective teachers in becoming familiar with the scope and purposes of secondary education, the qualification and responsibilities of teachers, the relation of the school to the community and current problems of secondary school teachers.

Mr. Speece

ED 470 METHODS OF TEACHING MATHEMATICS

3 (3-0) f

A study of the purposes, methods, materials and evaluation practices appropriate for teachers of mathematics at the secondary level.

ED 471 STUDENT TEACHING IN MATHEMATICS

10 (2-20) f

This course is intended to provide the prospective teacher with an opportunity to get experience in the skills and techniques involved in teaching mathematics. Each student during the senior year will spend one quarter off-campus in a selected center. In addition to acquiring the necessary competencies for teaching mathematics, the student teachers will also have an opportunity to become familiar with the total school program and to participate in as many community activities as time will permit during the period of student teaching.

ED 475 METHODS OF TEACHING SCIENCE

3 (3-0) f

A study of the purposes, methods, materials and evaluation practices appropriate for teachers of physical and natural science at the secondary level.

ED 476 STUDENT TEACHING IN SCIENCE

10 (2-20) f

This course is intended to provide the prospective teacher with an opportunity to get experience in the skills and techniques involved in teaching science. Each student during the senior year will spend one quarter off-campus in a selected center. In addition to acquiring the necessary competencies for teaching science, the student teacher will also have an opportunity to become familiar with the total school program and to participate in as many community activities as time will permit during the period of student teaching.

— — — — — **MECHANICAL ENGINEERING**

COURSES FOR UNDERGRADUATES

ME 101, 102 ENGINEERING GRAPHICS I, II

2 (0-4) f s

Corequisite: MA 101 or MA 111

The objective of these courses is to teach the student the proper methods and procedures for interpreting this medium of communication by the various theories and practices in the graphical field. Emphasis will be placed on instrument practice; geometrical construction; free hand technical sketching of all projects; completion of prepared worksheets; projections; sections; auxiliary projections; revolution; pictorial projections; fasteners, intersection and development; details and assemblies; charts and graphs; tracing and demonstrations in various reproductions; geometrical magnitudes represented by points, lines, planes and solids with emphasis upon visualization.

ME 271, 272 AIR CONDITIONING DRAWING I, II

2 (0-4) f s

Prerequisite: ME 102

Required of sophomores in Heating and Air Conditioning

Drawing board work on heating symbols; sheet metal drawing, duct layout, steam piping (single line, double line, isometric and other pictorials); hot water and other piping, valves, traps, filters, and miscellaneous equipment; boiler hookups and connections; compressor and condenser layout; use of catalog data and tables as applied to drafting practices.

ME 301 ENGINEERING THERMODYNAMICS I

3 (3-0) f or s

Prerequisites: MA 202, PY 201

Fundamental laws of energy transformations with emphasis on the First and Second Laws; behavior of gases and vapors; elementary applications.

ME 302 ENGINEERING THERMODYNAMICS II

3 (3-0) s

Prerequisite: ME 301

A continuation of Engineering Thermodynamics I for Mechanical Engineering juniors. Thermodynamics of gaseous mixtures, combustion, gas compressors, steam turbines, refrigeration, air conditioning, internal combustion engines, and gas turbines.

ME 303 ENGINEERING THERMODYNAMICS III

3 (3-0) f

Prerequisite: ME 301

A continuation of Engineering Thermodynamics I for non-Mechanical Engineering students. Applications of fundamental thermodynamic principles, particularly in the Heat Power field, elements of heat transfer.

ME 304 FUNDAMENTALS OF HEAT POWER

3 (3-0) f

Prerequisite: PY 211

Energy and energy transformations, including a brief discussion of measurements of quantities involved. Properties of working substances, particularly steam. Elementary combustion of fuels. Steam power cycles and applications to steam turbines. Elements of Heat Transfer.

ME 305, 306 MECHANICAL ENGINEERING LABORATORY I, II

1 (0-3) f s

Corequisite: ME 301, 302

Instrumentation as applied to pressure, temperature, speed, power, and fluid flow measurements; determination of properties of fuels and lubricants; applications of instrumentation to determination of characteristics of nozzles, pumps, turbines and compressors.

MECHANICAL ENGINEERING

ME 311 KINEMATICS

3 (1-6) f or s

Prerequisites: ME 102, EM 311

Corequisite: EM 312

Required of juniors in ME and MEA.

This course is a study of kinematics of machines and consists of a systematic study of the displacements, velocities, and accelerations which occur in mechanisms.

ME 312 DYNAMIC ANALYSIS

3 (1-6) s

Prerequisites: ME 311

Required of juniors in ME

The analysis and control of forces in machines. Includes inertia forces, free and forced vibrations, and control systems.

ME 351 ELEMENTS OF AERONAUTICAL ENGINEERING

3 (3-0) f

Prerequisites: MA 202, PY 202

Corequisite: EM 312

The airplane and its component parts, terminology, basic fluid mechanics and the principles of flight, airfoil characteristics, and an introduction to performance and stability analysis.

ME 352 AERODYNAMICS

3 (3-0) s

Prerequisite: ME 351, MA 401

Fundamental concepts underlying experimental aerodynamics, the aerodynamicist's data, elementary flow theory, Reynolds number and the effect of viscosity, Mach number and compressibility, finite wing theory.

ME 371, 372 ELEMENTS OF HEAT POWER I, II

3 (3-0) f s

Prerequisites: MA 201, PY 212

Required of juniors in Heating and Air Conditioning

Basic laws of thermodynamics; applications to gaseous mixtures, combustion, compressors, refrigeration, heating and air conditioning; principles of steam power plants with emphasis on generation of steam and availability of by-product steam for heating purposes.

ME 375, 376 AIR CONDITIONING LABORATORY I, II

1 (0-3) f s

Concurrent with ME 371, 372

Required of juniors in Heating and Air Conditioning

The use, limitation and calibration of instruments for the measurement of temperature, pressure, power, speed and fluid flow; measurement of properties of fuel and lubricants; determinations of characteristics of pumps, compressors and turbines.

ME 377 BUILDING MECHANICS A

3 (3-0) s

For third year Architecture students only

Heating principles, systems and control; air conditioning principles, systems and controls; fuels, ventilation; pumps; and acoustical control.

ME 378 BUILDING MECHANICS B

3 (3-0) f

For fourth year Architecture students only

Principles of plumbing including venting, drainage, demand and load calculations, water distribution, pipe sizing, storm drainage, sprinkler systems; elevators and conveyors; illumination, lighting and power circuits, panels and service connections and codes.

ME 379 MECHANICAL EQUIPMENT OF BUILDING

3 (3-0) s

Prerequisite: ME 371

Required of seniors in Heating and Air Conditioning

Study of mechanical equipment of buildings including elevators, pumps, drainage and venting, pipe sizing of water lines, hot water storage and distribution, sprinkler systems, State and local codes for plumbing, heating, electrical and building trades; acoustical control, and the principles of wiring specifications for the mechanical trades.

ME 381, 382 AIR CONDITIONING I, II

3 (3-0) s f

Prerequisite: ME 371

Required of seniors in Heating and Air Conditioning

Principles of heating and air conditioning and their applications to the design and operation of heating and air conditioning systems; methods of controls of various component parts of such systems.

ME 401 POWER PLANTS

3 (3-0) f or s

Prerequisite: ME 302

Required of seniors in Mechanical Engineering

Application of thermodynamics, economics and principles studied in other basic courses of the mechanical engineering curriculum to the engineering of thermal power plants including the energy balance, combustion, steam generators, prime movers, heat transfer devices, compressors, pumps and auxiliaries.

ME 405, 406 MECHANICAL ENGINEERING LABORATORY III, IV

1 (0-3) f s

Prerequisite: ME 306

Determinations of performance of heat power equipment with emphasis on heat transfer and fluid flow.

ME 410 JET PROPULSION

3 (3-0) s

Prerequisite: ME 302 and ME 352 or EM 430

Application of fundamental principles of thermodynamics and the mechanics of a compressible fluid to the processes of jet-propulsion and turbo-propeller aircraft; the effect of performance of components on performance of engine; analysis of engine performance parameters.

ME 411, 412 MACHINE DESIGN I, II

3 (1-6) f s

Prerequisites For ME 411: EM 321, for ME 412: ME 311, 411

Required of seniors in Mechanical Engineering

A study of the methods of designing machine elements to withstand steady and varying forces and to operate without excessive wear at friction areas. Elementary stress analysis is followed by combined stresses, applied to such elements as keys, shafts, springs, bearings, belting, clutches, brakes, frames, and gears.

ME 441 TECHNICAL SEMINAR

1 (1-0) f or s

Prerequisite: Graduating Senior standing

Meetings once a week for the delivery and discussion of student papers on topics of current interest in Mechanical Engineering.

ME 453 APPLIED AERODYNAMICS

3 (3-0) f

Prerequisite: ME 351

Determination of design data, turnnel wall and ground effect interference corrections, spanwise and chordwise load distributions, performance estimation, and stability and control analysis. Attention is given to transonic and supersonic aerodynamics.

ME 455, 456 AERONAUTICAL LABORATORY I, II

1 (0-3) f s

Prerequisites: ME 351

Demonstration of wind tunnel testing methods and principles of fluid motion. Aerodynamic tests of airplane components and complete models. Calibration of instruments and other laboratory exercises related to aeronautical engineering.

ME 459 AIRCRAFT STRUCTURES

3 (3-0) f

Prerequisites: ME 351, EM 321

Theory of aircraft structures, design principles and methods of stress analysis, emphasis on thin-walled structures.

ME 461, 462 AIRPLANE DESIGN I, II

3 (1-6) f s

Prerequisites: For ME 461, ME 351; for ME 462: ME 461, 459

Design procedure, preliminary layout from design specifications, weight and balance performance estimation, control and stability analysis, principles of stress analysis.

ME 473 REFRIGERATION

3 (3-0) f

Prerequisite: ME 372

Required of seniors in Heating and Air Conditioning

The fundamental principles of refrigeration, the performance of various types of refrigerating machines and their applications to air conditioning; controls of such systems.

ME 475, 476 AIR CONDITIONING LABORATORY III, IV

1 (0-3) f s

Concurrent with ME 481, 482

Required of seniors in Heating and Air Conditioning

The testing of heat transfer equipment including feed water heaters, radiators, convectors, unit heaters, heating panels; heating boilers, hot air furnaces, stokers, oil burners; air conditioners of both the spray and coil types evaporative condensers.

ME 481, 482 AIR CONDITIONING DESIGN I, II

3 (1-6) f s

Prerequisite: ME 381

Required of seniors in Heating and Air Conditioning

The design, layout and cost estimates of various types of heating and air conditioning systems.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

ME 501 STEAM AND GAS TURBINES

3 (3-0) f

Prerequisites: ME 302 and EM 430 or ME 352

Fundamental analysis of the theory and design of turbomachinery flow passages: control and performance of turbomachinery; gas-turbine engine processes.

MECHANICAL ENGINEERING

ME 502 HEAT TRANSFER

3 (3-0) f or s

Prerequisite: ME 301

A study of the fundamental laws of heat transfer by conducting convection and radiation; steady and unsteady states heat transfer; elementary application to heat transfer equipment.

ME 507, 508 INTERNAL COMBUSTION ENGINE FUNDAMENTALS

3 (3-0) f s

Prerequisite: ME 302

The fundamentals common to internal combustion engine cycles of operation. The Otto engine: carburetion, fuel distribution, flame propagation, normal and knocking combustion, throttling, pumping, valve and spark timing, and altitude effects; the Diesel engine: injection and spray formation fuel rating, atomization, penetration, diesel knock, combustion, pre-combustion, and scavenging as applied to reciprocating and rotary engines.

ME 515 EXPERIMENTAL STRESS ANALYSIS

3 (2-3) f

Prerequisites: ME 312, EM 321

Stresses determined experimentally by photoelasticity methods, by mechanical and electrical strain gages, by brittle coatings, etc. Effects of varying stresses.

ME 517 LUBRICATION

3 (2-3) s

Prerequisite: EM 430

The theory of viscous and boundary lubrication. Bearing design from various approaches. Thermal equilibrium. Properties of lubricants.

ME 536 AIRCRAFT ENGINES

3 (3-0) s

Prerequisite: ME 302

Spark-ignition, compression-ignition, and jet engines are studied from the standpoint of design, construction, and operation and as they apply to aircraft.

ME 545, 546 PROJECT WORK IN MECHANICAL ENGINEERING I, II

2 (0-6) f s

Individual or group assigned design, construction, analytical or experimental projects in Mechanical Engineering.

ME 551 FLYING QUALITIES

3 (3-0) f

Prerequisite: ME 352

Evaluation of flying qualities of airplanes, important factors and criteria for design, analysis of stick-fixed and stick-free control and stability, maneuvering stability, lateral controllability, and stick force determination.

ME 552 AIRCRAFT APPLIED LOADS

3 (3-0) s

Prerequisite: ME 453

Determination of aerodynamics loads, maneuvering and gust loads, V-g diagram, span-wise distributions on unswept and swept wings, dynamic flight loads. Consideration of the load modifications in the transonic flight range.

ME 553 PROPELLER AND ROTARY WING DESIGN

3 (3-0) f

Prerequisite: ME 352

A study of the design of aircraft propellers and rotary wing theory and design. Discussion of problems of performance evaluation, control and stability, as applied to rotating wing aircraft.

ME 554 ADVANCED AERODYNAMIC THEORY

3 (3-0) s

Prerequisite: ME 352

Development of fundamental aerodynamic theory. Emphasis upon mathematical analysis and derivation of equations of motion, airfoil theory and comparison with experimental results. Introduction to supersonic flow theory.

ME 562 ADVANCED AIRCRAFT STRUCTURES

3 (3-0) s

Prerequisite: ME 459

Development of methods of stress analysis for aircraft structures, special problems in structural design, stiffened panels, rigid frames, indeterminate structures, general relaxation theory.

ME 571 AIR CONDITIONING

3 (3-0) f

Prerequisite: ME 302

Principles of heating and ventilation; warm air, steam and hot-water heating systems; air conditioning.

ME 572 REFRIGERATION

3 (3-0) s

Prerequisite: ME 302

An analysis of the simple, compound, centrifugal and multiple effect compression system, the steam jet and the absorption systems of refrigeration.

COURSES FOR GRADUATES ONLY

ME 601, 602 ADVANCED ENGINEERING THERMODYNAMICS I, II 3 (3-0) f s
 Prerequisite: ME 302 or ME 303
 First and Second Laws; theory of variable specific heats; general equations of thermodynamics; characteristic equations of state; reduced coordinates; prediction of properties of gases and vapors; chemical equilibrium; metastable states; thermodynamics of fluid flow.

ME 603 ADVANCED POWER PLANTS 3 (3-0) f
 Prerequisite: ME 401
 A critical analysis of the energy balance of thermal power plants thermodynamics and economic evaluation of alternate schemes of development; study of recent developments in the production of power.

ME 604 NUCLEAR POWER PLANTS 3 (3-0) s
 Prerequisites: ME 302, 502, EM 430, PY 419
 Resources of fuels, power reactors, reactor materials and properties, coolants, pumps; heat exchangers, nuclear gas turbine power plants, nuclear steam power plants special purpose plants, the economics of nuclear power and selected topics on shielding waste disposal and health precautions.

ME 611, 612 ADVANCED DESIGN I, II 3 (3-0) f s
 Prerequisite: ME 412
 Stress analysis applied to advanced design problems; unsymmetric bending, curved beams, flat plates, non-circular members in torsion, thick walled cylinders, localized stresses; special problems according to the interests of the class.

ME 613 MECHANICS OF MACHINERY 3 (3-0) f
 Prerequisite: ME 311
 Kinetics of machines, with emphasis on inertia forces; balancing of machine members and reciprocating machines.

ME 641, 642 MECHANICAL ENGINEERING SEMINAR I, II 1 (1-0) f s
 Faculty and graduate student discussions centered around current research problems and advanced engineering theories and developments.

ME 645 MECHANICAL ENGINEERING RESEARCH 3 to 6
 Prerequisite: Graduate standing in ME and approval of adviser.
 Individual research in the field of Mechanical Engineering.

ME 651 PRINCIPLES OF FLUID MOTION 3 (3-0) f
 Prerequisite: ME 352 or equivalent
 Co-requisite: MA 511
 Fundamental principles of fluid dynamics. Mathematical methods of analysis are emphasized. Potential flow theory development with introduction to the effects of viscosity and compressibility. Two dimensional and three dimensional phenomena are considered.

ME 652 DYNAMICS OF COMPRESSIBLE FLOW 3 (3-0) s
 Prerequisite: ME 651
 Properties of compressible fluids, equation of motion of one-dimensional motion, channel flows, shock wave theory, methods of observation, and flows at transonic speeds.

ME 653 SUPERSONIC AERODYNAMICS 3 (3-0) f
 Prerequisite: ME 652
 Equations of motion in supersonic flow, Prandtl-Meyer turns, method of characteristics, hodograph plane, supersonic wind tunnels, supersonic airfoil theory, and boundary layer shock interaction.

ME 654 DYNAMICS OF VISCOUS FLUIDS 3 (3-0) s
 Prerequisite: ME 651
 Development of the Navier-Stokes equations and the boundary layer theory. Laminar and turbulent boundary layers in theory and experiment, flow separation, and transition.

ME 671, 672 ADVANCED AIR CONDITIONING DESIGN I, II 3 (3-0) f s
 Prerequisites: ME 571, 572
 The design of heating and air conditioning systems; the preparation of specifications and performance tests on heating and air conditioning equipment.

METALLURGICAL ENGINEERING — — — — —

COURSES FOR UNDERGRADUATES

MIM 201, 202 STRUCTURE AND PROPERTIES OF ENGINEERING MATERIALS I, II 3 (2-3) f s

Prerequisite: CH 103

I An introduction to the fundamental physical principles governing the structure and constitution of metallic and non-metallic materials of construction, and the relation of these principles to the control of properties.

II Important applications of engineering materials and criteria for selection of materials.

MIM 321 METALLURGY 3 (2-3) s

Prerequisite: CH 103

A general course in physical metallurgy including laboratory work. The constitution, structure, and properties of metals and alloys.

MIM 331, 332 PHYSICAL METALLURGY I, II 3 (3-0) f s

Prerequisites: CH 103, MIM 201

Required of juniors in MTE

The fundamental principles of physical metallurgy with emphasis on correlation between structure, constitution, and properties of metals and alloys. A systematic development of the metallurgical aspects of atomic and crystalline structure, solid solutions, diffusion, precipitation hardening, elastic and plastic behavior, and recrystallization.

MIM 401, 402 METALLURGICAL OPERATIONS I, II 4 (3-3) f s

Prerequisite: MIM 332

A systematized treatment of the fundamental operations involved in the production and fabrication of metals and alloys. Part I deals primarily with procedures and operations employed in chemical or extractive metallurgy. Part II covers the operations of physical and mechanical metallurgy.

MIM 421, 422 METALLURGY I, II 2 (2-0) f s

Prerequisite: CH 103

Required of seniors in ME and MEA

The constitution, structure and properties of engineering ferrous and non-ferrous metals and alloys; influences of mechanical working and heat treatment; physical testing, corrosion and its prevention. Laboratory work included in second semester.

MIM 423 METALLURGICAL LABORATORY 1 (0-3) f s

Co-requisite: MIM 421 or 422

Laboratory work to accompany Metallurgy I, II

MIM 431, 432 METALLOGRAPHY I, II 3 (2-3) f s

Prerequisite: MIM 332

An intensive study of the principles and techniques for examination and correlation of the structure, constitution, and properties of metals and alloys.

MIM 445, 446 EXPERIMENTAL ENGINEERING I, II 3 (1-6) f s

Prerequisite: MIM 422 or approval of instructor

Advanced engineering principles applied to a specific project dealing with metallurgy, metallography, or general experimental work. A seminar period provided and a written report required.

MIM 451, 452 METALLURGICAL ENGINEERING SEMINAR 1 (1-0) f s

Prerequisite: Senior Standing in MTE

Reports and discussion of special topics in metallurgical engineering and related subjects.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

MIM 521, 522 ADVANCED PHYSICAL METALLURGY I, II 3 (3-0) f s

Prerequisite: MIM 422 or 432

Theories concerning behavior and control of engineering alloys, reaction rates in the solid state and alloy influences; current heat treating practices, surface treatments; behavior of metals at high and low temperatures; special purpose alloys; powder metallurgy; review of modern equipment and methods for the study of metals.

MIM 523, 524 METALLURGICAL FACTORS IN DESIGN 2 (2-0) f s

Prerequisite: MIM 422

A study of the metallurgical factors that must be considered in using metals in design.

MIM 541, 542 PRINCIPLES OF CORROSION I, II 3 (2-3) f s

Prerequisite: MIM 422

The fundamentals of metallic corrosion and passivity. The electrochemical nature of corrosive attack, basic forms of corrosion, corrosion rate factors, methods of corrosion protection. Laboratory work included.

MIM 561 ADVANCED STRUCTURE AND PROPERTIES OF MATERIALS

3 (2-3) f

Prerequisite: MIM 422

A systematic treatment of the fundamental physico-chemical principles governing the constitution of both metallic and ceramic materials. Correlation of these principles with physical mechanical and chemical properties of materials. Particular emphasis is placed upon materials of construction for nuclear reactors. Lecture and Laboratory.

MIM 562 MATERIALS PROBLEMS IN NUCLEAR ENGINEERING

3 (2-3) s

Prerequisite: MIM 561

Engineering aspects of problems involved in the selection and application of reactor materials. Specific attention is given to elevated temperature behavior, fatigue, corrosion, irradiation damage, and the fabrication and processing of these materials. Lecture and Laboratory.

COURSES FOR GRADUATES ONLY

MIM 651, 652 THEORY AND STRUCTURE OF METALS

3 (3-0) f s

Prerequisite: MIM 522

An advanced interpretation of the development of theories of the metallic state with emphasis on modern physical concepts. Topics include theory of crystallinity, bonding forces, stability of metallic structures, diffusion, and dislocation theory.

MIM 695 METALLURGICAL ENGINEERING RESEARCH

Credits by arrangement

Independent investigation of an appropriate problem in Metallurgical Engineering. A report on this investigation is required as a graduate thesis.

— — — — — MILITARY SCIENCE AND TACTICS

MILITARY SCIENCE—THE BASIC COURSE*

MS 101, 102 MILITARY SCIENCE I

2 (2-2) f s

Classroom instruction is given in Military History, Organization of the Army, Individual Weapons and Marksmanship, and Military Courtesy. On the drill field, emphasis is placed on development of teamwork, esprit de corps, and essential characteristics of leadership.

MS 201, 202 MILITARY SCIENCE II

2 (0-4) f s

Prerequisites: Military Science I or equivalent credit

Classroom instruction is given in Map Reading, Crew-served Weapons, Gunnery and Role of the Army in National Defense. On the drill field, emphasis is placed on development of teamwork, esprit de corps, essential characteristics of leadership, and acceptance of responsibility.

THE ADVANCED COURSE

MS 301, 302 MILITARY SCIENCE III

3 (2-4) f s

Prerequisites: Military Science I and II, or equivalent credit

Classroom instruction is given in Tactics, Organization, Function and Mission of the Arms and Services, Methods of Instruction, Communications, and Leadership. On the drill field, further emphasis is placed on acceptance of responsibility, exercise of command, and development of self-confidence, initiative and dignity in appearance and demeanor.

MS 401, 402 MILITARY SCIENCE IV

3 (2-4) f s

Prerequisites: Military Science III and satisfactory completion of six weeks' summer camp training.

Classroom instruction is given in Tactics, Logistics, Operations, Personnel Management, Military Administration, and Service Orientation. On the drill field, emphasis is placed on exercise of command, planning and executing all phases of training (instruction in basic fundamentals, inspections, ceremonies, and competitions) and maximum development of teamwork, esprit de corps, and leadership characteristics.

AIR SCIENCE—THE BASIC COURSE*

AS 121, 122 AIR SCIENCE I

2 (2-2) f s

Foundations of Air Power. A general survey of air power designed to provide the student with an understanding of the elements of air power and basic aeronautical science.

AS 221, 222 AIR SCIENCE II

Prerequisite: AS I or equivalent credit

Instruction is given in Elements of Aerial Warfare, Careers in USAF, and Leadership Laboratory—Cadet Non-Commissioned Officers' Training.

* All veterans in service as long as six months are excused from this course but may enroll in the basic course in Army or Air Force ROTC to qualify for later enrollment in advanced courses. See also the Division of Military and Air Science and Tactics, pages 163-166.

MODERN LANGUAGES

THE ADVANCED COURSE

AS 321, 322 AIR SCIENCE III

3 (4-2) f s

Prerequisites: AS I and II or equivalent credit

Instruction is given in Air Force Commander and Staff, Problem Solving Techniques, Communications Process and Air Force Correspondence, Military Justice System, Applied Air Science, Aircraft Engineering, Navigation and Weather, Air Force Base Functions, and Leadership Laboratory.

Note: Cadets attend Summer Camp after Air Science III and before taking Air Science IV.

AS 421, 422 AIR SCIENCE IV

3 (4-2) f s

Prerequisite: AS III

Summer Camp is critiqued. Instruction is given in Principles of Leadership and Management (Seminar), Career Guidance, Military Aspects of World Political Geography, Military Aviation and the Art of War, Briefing for Commissioned Service, and Leadership Laboratory.

MINERAL INDUSTRIES — — — — —

CERAMIC ENGINEERING (see pages 182-184)

GEOLOGY (see pages 221-223)

METALLURGICAL ENGINEERING (see pages 250-251)

MODERN LANGUAGES — — — — —

Courses numbered above ML 106 need not be followed as a sequence in their respective gamut.

Two years of high school language will normally be considered the equivalent of one year of college instruction in that language. All students registering for a language course will be **examined** on proficiency and scheduled for the course for which they are fitted.

FRENCH

ML 101 ELEMENTARY FRENCH

3 (3-0) f s

Structure, diction, pronunciation and other matters of technique of the language, supplemented by readings and translations. No previous training in the language necessary.

ML 102 FRENCH GRAMMAR AND PROSE READING

3 (3-0) f s

Prerequisite: ML 101 or equivalent

A survey of the basic elements of grammar accompanied and illustrated by intermediate readings progressing to the reading of standard texts.

ML 201 FRENCH PROSE: SELECTIONS FROM MODERN FRENCH LITERATURE

3 (3-0) f s

Prerequisites: ML 101, 102 or equivalent

Selected readings from literary French of the 18th and 19th centuries. Attention given to the attainment of skill in reading and comprehension.

ML 202 FRENCH PROSE: FRENCH CIVILIZATION

3 (3-0) f s

Prerequisites: ML 101, 102 or equivalent

After a preliminary survey of the land and people of France, such topics as language, arts, science, literature, philosophy, etc., are given consideration. Parallel readings and reports.

ML 301 SURVEY OF FRENCH LITERATURE

3 (3-0) f s

Prerequisite: Junior or senior standing

Lectures illustrated by selected readings in translation covering the development of the novel, the drama, the short story and the poetry of France from the 12th century to the present. Parallel readings and reports. No language prerequisites.

ML 401, 402 INTRODUCTORY SCIENTIFIC FRENCH

3 (3-0) f s

Prerequisites: ML 201, 202 or equivalent

A study of scientific French of intermediate difficulty, supplemented with lectures on terminology and other linguistic techniques. The needs of students whose interest is that of the acquisition of a reading knowledge of the language are constantly kept in view. Basic technique of translation explained and demonstrated by means of personal conferences.

ML 501 502 ADVANCED SCIENTIFIC FRENCH

3 (3-0) f s

Prerequisite: Knowledge of basic French grammar.

A study of scientific literature appearing in current bulletins, magazines and technical journals. Designed to meet the needs of students whose interest in the language is primarily that of reading ability. Choice of reading materia adjusted to individual needs: may be taken by students of varying degrees of previous linguistic training.

GERMAN

ML 103 ELEMENTARY GERMAN

3 (3-0) f s

Study of the structure and technique of the language, supplemented by easy reading and translations. No previous training in the language necessary.

ML 104 GERMAN GRAMMAR AND PROSE READING

3 (3-0) f s

Prerequisite: ML 103 or equivalent

A course designed primarily for students who wish to attain proficiency in reading German. Attention given to basic grammar and vocabulary with practice in the translation and interpretation of German prose.

ML 203 GERMAN PROSE: SELECTIONS FROM MODERN GERMAN LITERATURE

3 (3-0) f s

Prerequisites: ML 103, 104 or equivalent

Readings in German Literature, a study of representative authors and their contribution to the development of the German language and culture. Parallel readings and reports.

ML 204 GERMAN PROSE: GERMAN CIVILIZATION

3 (3-0) f s

Prerequisites: ML 103, 104 or equivalent

Readings in the history and customs of Germany, supplemented by lectures on such topics as language, arts, science, philosophy, etc. Parallel readings and reports.

ML 303 SURVEY OF GERMAN LITERATURE

3 (3-0) f s

Prerequisite: Junior or senior standing

The study of various types of German Literature. A brief outline of German literary development. Parallel readings in translation. No previous training in the language necessary.

ML 403, 404 INTRODUCTORY SCIENTIFIC GERMAN

3 (3-0) f s

Prerequisites: ML 203, 204 or equivalent

A study of scientific German of intermediate difficulty supplemented with lectures on terminology and other linguistic techniques. The needs of students whose interest is that of the acquisition of a reading knowledge of the language are constantly kept in view. Basic technique of translation explained and demonstrated by means of personal conferences.

ML 503 GERMAN GRAMMAR FOR GRADUATE STUDENTS

3 (3-0) f s

This course is open to Graduate Students only and is designed to present the grammar of scientific German as rapidly as possible in preparation for the reading course which follows.

ML 504 SCIENTIFIC GERMAN

3 (3-0) f s

Prerequisite: ML 503 or equivalent

Reading and translation of technical German, supplemented by discussions on terminology, word order, vocabulary analysis and other linguistic techniques. Subject material adjusted to individual needs; conferences.

SPANISH

ML 105 ELEMENTARY SPANISH

3 (3-0) f s

Structure, diction, pronunciation and other matters of technique of the language, supplemented by easy readings. No previous training in the language necessary.

ML 106 SPANISH GRAMMAR AND PROSE READING

3 (3-0) f s

Prerequisite: ML 105 or equivalent

A survey of the basic elements of grammar accompanied and illustrated by intermediate readings progressing to the reading of standard texts.

ML 205 SPANISH PROSE: IBERIA

3 (3-0) f s

Prerequisites: ML 105, 106 or equivalent

Emphasis is placed upon translating Spanish prose and developing vocabulary. The readings give the student a comprehensive picture of the culture, geography, history and economy of Spain.

MODERN LANGUAGES

ML 206 SPANISH PROSE: HISPANO-AMERICA

3 (3-0) f s

Prerequisites: ML 105, 106 or equivalent

Emphasis is placed upon translating Spanish prose and developing vocabulary. The readings give the student a comprehensive picture of the culture, geography, history and economy of the Spanish American countries.

ML 305 SURVEY OF SPANISH LITERATURE

3 (3-0) f s

Prerequisite: Junior or senior standing

Lecture illustrated by selected reading in translation covering the development of the novel, drama, short story and poetry of Spain from 1300 to the present. Parallel reading and reports by students.

ML 307, 308 TECHNICAL SPANISH

3 (3-0) f s

Prerequisite: ML 205 or equivalent

A study of technical and industrial literature. Particular attention given to the special terminology characteristic of such literature with a view to the acquisition of a practical vocabulary. Individual conferences and reports.

ML 405, 406 SCIENTIFIC SPANISH

3 (3-0) f s

Prerequisites: ML 307, 308 or equivalent

A study of scientific literature appearing in current bulletins, magazines and technical journals. Students given the opportunity of working a translation project in connection with their subject of major interest. Special attention given to the comprehension of the thought of the article under consideration and to its accurate rendition into English. Parallel readings, reports and conferences.

ENGLISH (FOREIGN STUDENTS)

ML 107 ELEMENTARY ENGLISH: PRONUNCIATION

3 (3-0) f s

Emphasis in this course is laid upon the pronunciation and comprehension of American English. Through oral reports students are encouraged to improve their diction and pronunciation. Comprehension is approached through dictation and lectures. Attention to grammar and spelling is given as individual problem arise.

ML 108 ELEMENTARY ENGLISH: READING

3 (3-0) f s

Emphasis in this course is laid upon the rapid comprehension of written English without the necessity of the student's first translating the material into his own language. Exercises are given in paraphrasing the material read. Continued practice on pronunciation, spelling and grammar. Special attention is paid to idiomatic expressions and Americanisms.

ML 109 ELEMENTARY ENGLISH: COMPOSITION

3 (3-0) f s

Emphasis in this course is laid upon the writing of English, special attention being given to compositions, grammatical exercises, sentence structure, spelling and diction.

RUSSIAN

ML 110 ELEMENTARY RUSSIAN

3 (3-0) f s

Structure and technique of the language, supplemented by easy readings and translations. Individual reports and conferences.

ITALIAN

ML 112 ELEMENTARY ITALIAN

3 (3-0) f s

Structure, diction, pronunciation and other matters of technique of the language, supplemented by easy readings, individual reports and conferences. No previous training in the language required.

ML 113 ITALIAN GRAMMAR AND PROSE READING

3 (3-0) f s

Prerequisite: ML 112 or equivalent

A survey of basic elements of grammar accompanied and illustrated by intermediate readings, progressing to the reading of standard texts.

GENERAL COURSES

ML 321, 322 ROMANCE LITERATURE

2 (2-0) s

Prerequisite: Junior or senior standing

A course cutting across language barriers to illustrate the most outstanding literary productions of France, Spain, Italy and Portugal and showing the cultural and social pattern of these nationalities having a common language inheritance. Selected readings and reports.

ML 323, 324 GERMANIC LITERATURE

2 (2-0) s

Prerequisite: Junior or senior standing

A study of the literary productions in each of the various types of Germanic literature, and lectures on their cultural background. Designed primarily to meet the needs of students who wish to supplement their knowledge of their own literature with that of the literature of other civilizations. Attention is given to the literary monuments of Germany, Holland, Denmark, Iceland and the Scandinavian countries. No foreign language prerequisites.

OCCUPATIONAL INFORMATION AND GUIDANCE

ED 420 PRINCIPLES OF GUIDANCE

2 (2-0) f s

This is a course designed to provide basic principles of guidance for teachers, teacher-counselors, administrators and others in the school, as well as workers in other areas such as the community agency, business, industry, group work and the like. Among the topics covered are: need for guidance; bases of guidance services; programs of guidance; studying the individual; counseling for educational, vocational, social, and personal problems; group procedures in guidance. Emphasis is on the practical application of guidance principles and procedures.

Mr. Morehead

ED 424 OCCUPATIONAL STUDIES

2 (2-0)

Designed for majors in Industrial Arts and Vocational Education and emphasizing Industrial occupations. Uses of educational and occupational information, sources, preparation and interpretation of occupational materials. Occupational and industrial structure, local and national trends, occupations in selected industries. Labor legislation. Job adjustment and satisfaction. Providing occupational information to individuals and groups.

Mr. Morehead

ED 524 OCCUPATIONAL INFORMATION

3 (3-0) s

This course is designed to prepare teachers, counselors, business and industrial personnel workers, placement workers and others to collect, evaluate and use occupational and educational information. In addition to the study of the usual source and types of published occupational information attention will be given to collection of occupational information locally, preparation of the occupational monograph, analysis of job requirements and worker characteristics, occupational trends and factors affecting trends, occupational and industrial structure and classification and the like. Imparting occupational information to groups and individuals by techniques such as the following are considered: the occupations unit in social studies and other courses, the occupations course, home-room activities, introducing occupational information informally in subject matter courses, the resource file, vocational counseling.

Mr. Morehead

ED 530 GROUP GUIDANCE

3 (3-0) f

This course is designed to help teachers, counselors, administrators and others who work with groups or who are responsible for group guidance activities to understand the theory and principles of effective group work, to develop skill in using specific group guidance techniques and to plan and organize group activities in the secondary school and other institutions. The relationship of group activities to counseling and other aspects of guidance services is considered. Methods of evaluating and improving group guidance activities are taken up.

Mr. Morehead

ED 531 INTRODUCTION TO VOCATIONAL REHABILITATION, PROGRAMS AND PROCESSES

3 (3-1) f

This course will serve as an introduction to the broad field of rehabilitation services and programs directed toward the restoration of physically and/or mentally disabled persons into employment. The course will emphasize the State-Federal, and private agency programs. It will be inter-disciplinary in its approach covering the areas of social work, medicine, psychology, sociology and economics. Specialists or appropriate persons in the above areas will be invited to participate. Field trips to agencies will be required.

Mr. Anderson

ED 532 MEDICAL INFORMATION FOR REHABILITATION COUNSELORS

3 (3-0) f

Prerequisites: ED 531 or equivalent and consent of instructor

This course is designed for Vocational Rehabilitation Counselors and other workers in rehabilitation. The course will provide counselors with the necessary background in medical information and terminology so that they can understand and interpret medical information in the integrated rehabilitation process. The course will consist of lectures by medical specialists who will present the methods of diagnosis, treatment and the rehabilitation aspects of disabling conditions. Visits will be made to clinics.

Mr. Anderson

PHILOSOPHY AND RELIGION

ED 590 INDIVIDUAL PROBLEMS IN GUIDANCE

3 (3-0) f s

Intended for individual or group studies of one or more of the major problems in Guidance and Personnel work. Problems will be selected to meet the interests of individuals. The workshop procedure will be used whereby special projects and reports will be developed by individuals and by groups.

Messrs. Anderson, Morehead

COURSES FOR GRADUATES ONLY

ED 631 EDUCATIONAL AND VOCATIONAL GUIDANCE

3 (3-0) f

This course aims to provide training for teachers who are part-time or full-time counselors, employment interviewers, social workers and personnel workers, who are aiding individuals with vocational adjustment problems. The course will cover the functions performed in vocational and educational guidance such as assembling and imparting occupational information, counseling regarding vocational and educational plans, the use of aptitude tests, placement in jobs and follow-up and procedures in setting up services of vocational and educational guidance in schools, employment offices and social service agencies.

Mr. Anderson

ED 633 TECHNIQUES IN GUIDANCE AND PERSONNEL

3 (3-0) s

This course is designed to aid personnel workers in secondary schools, colleges, employment offices and social agencies to develop an understanding of and skill in using various guidance and personnel techniques. Some of the techniques to be studied intensively are: anecdotal reports, rating scales, observation, records and reports, sociograms, interviewing, counseling and case study procedures. Students will become acquainted with these techniques through lectures, demonstrations and the study of case histories. Attention will be given to both diagnosis and treatment.

Mr. Anderson

ED 641 FIELD WORK IN OCCUPATIONAL INFORMATION

2 to 12 f s

A practical course in which the student undertakes field work in secondary schools, colleges, social service agencies, employment offices and industrial establishments which carry on guidance and personnel work. The students may observe and participate in some personnel services and may study the organization and administration of the programs.

Messrs. Anderson, Morehead

ED 651 RESEARCH IN OCCUPATIONAL INFORMATION AND GUIDANCE

Maximum 6 credits f s

Qualified students will conduct investigations and research in Guidance and Personnel. Published reports and techniques in investigation will be analyzed and evaluated.

Messrs. Anderson, Morehead

PHILOSOPHY AND RELIGION — — — — —

COURSES FOR UNDERGRADUATES

PHI 201 LOGIC

3 (3-0) f s

Language as symbol system, the formal structure of reasoning, and characteristics of empirical knowledge; emphasis on the establishment of more adequate reflective habits.

PHI 203 EFFECTIVE LIVING

2 (2-0) f s

The meaning of personal growth and maturity; the quest for intellectual and emotional equilibrium in the face of the challenge which modern conditions pose for traditional patterns of thought and behavior; formulation of personal philosophy of life.

PHI 205 PROBLEMS AND TYPES OF PHILOSOPHY

3 (3-0) f s

The great philosophers of the western world, the socio-cultural heritage in which they worked, their major concerns and conclusions; the relation of philosophy to vital questions of human life.

REL 301 RELIGIOUS GROUPS AND TRENDS IN THE UNITED STATES

2 (2-0) f s

Background and characteristic beliefs of the major religious groups in the United States; survey of the dominant trends and movements in contemporary American religion.

REL 302 THE BIBLE AND ITS BACKGROUND

3 (3-0) f s

Background of the Bible: origin, growth and development of central concepts, leading personalities, and the process by which it has come to us as viewed in the light of modern scholarship.

REL 303 CHRISTIAN ETHICS

2 (2-0) f s

An analysis of the major areas of modern life in the light of the ethical teachings of Christianity, with an examination of the religious faith upon which these teachings rest.

PHI 305 PHILOSOPHY OF RELIGION

3 (3-0) f s

Psychological and historical roots of religious belief; science and religion; the rational foundations of theism; the concept of God in Western thought.

PHI 306 PHILOSOPHY OF ART**3 (3-0) f s**

Theory of beauty and aesthetic experience, analysis of specific media of artistic expression and the formulation of a philosophy of art which relates the beautiful and the useful.

PHI 309 MARRIAGE AND FAMILY LIVING**3 (3-0) f s**

Secular and religious concepts of marriage; economic, physiological and socio-psychological aspects of premarital and marital relationships; parenthood; analysis of principles in terms of which value judgments relative to marriage and family living may be made with maximum rationality; formulation of a philosophy of marriage.

PHI 311 PARENT-CHILD RELATIONSHIPS**2 (2-0) f s**

Principles of inter-personal relationships; the enhancement of democratic values and the attainment of growth on the part of parent and child through the exercise of freedom, responsibility and creative activity; consideration of conflicting theories of husband-wife, and parent-child relationships.

PHI 395 PHILOSOPHICAL ANALYSIS**3 (3-0) f s**

Semantical, logical and experimental methods of investigation; intensive application of critical inquiry to a few fundamental problems including the nature of knowledge and its validation, and value judgment; major objective to afford the student personal participation in and acquaintance with philosophical analysis as intellectual tool with wide applicability.

PHI 401 FOUNDATIONS OF SCIENCE**3 (3-0) f s**

Nature and validity of knowledge, basic concepts of modern science, scientific method and the implications of the philosophy of modern science for ethics, social philosophy and the nature of reality.

REL 403 RELIGIONS OF THE WORLD**3 (3-0) f s**

Background, general characteristics and basic teachings of the major living religions of the world; consideration of contemporary secular movements that are in a sense religions.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES**PHI 501 SOCIAL ETHICS****3 (3-0) f s**

Prerequisite: Six term credits in Philosophy or related fields
Major ethical theories and the issue posed as basic in each; the problem of value in the light of modern knowledge; ethical principles as ground for cultural unity; the applicability of ethics to problems of policy determination.

REL 502 PROBLEMS OF RELIGION**3 (3-0) f s**

Prerequisite: Six term credits in Religion or related fields
Major trends in contemporary theology; the significance of the resurgent interest in religion and the remarkable growth of the churches in recent times; problems of effective communication at the theological level; the ecumenical movement.

PHYSICAL EDUCATION

The college requires all freshmen and sophomores to take physical education unless they are excused by the Health Service Physician for physical reasons. As explained in the paragraph below, veterans are given special considerations. Normally, credit in four physical education courses is required for graduation. All physical students must pass a swimming test. Activities in the physical education program are divided into two program areas: Prescribed Sports and Controlled Elective Sports. Insofar as facilities and staff permit, every effort is made to direct students into activities which will meet their individual needs. The bases for determining individual needs are as follows:

A medical examination. In case a student has some unusual physical impairment, the college physician will either excuse him from physical education or recommend a special type of activity suitable to the particular need.

A swimming test. All freshmen and transfer students who fail to pass the swimming test are immediately assigned to beginning swimming. Students who pass the test are classified primarily on the basis of their scores in the athletic ability test.

An athletic ability test. Students who score below the 15th percentile are enrolled in Fundamental Sports for two semesters, or until their improvement indicates that they are ready for Basic Sports.

Students who score between the 15th and 75th percentiles are placed in Basic Sports for two semesters, or until their improvement indicates that they are ready for the Controlled Elective Sports Area.

Students who score above the 75th percentile are immediately directed to the Controlled Elective Sports Area.

Normally, all second year students participate in the Controlled Elective Sports Area. This part of the program is controlled to the extent that a student may not receive credit in more than two team sports.

PHYSICAL EDUCATION

REQUIREMENT FOR VETERANS:

- 1—All servicemen who have taken as much as six-months military service will receive one year of credit. PE 101, PE 102.
- 2—All servicemen will be required to take one year of Physical Education. (PE 201, PE 202.)
- 3—A former student or transfer student with one earned semester credit in physical education plus military service must earn one more semester credit (PE 202).
- 4—A student who has earned one year (2 semester credits) here or elsewhere, plus his credit of one year for military service will have completed his requirements.
- 5—Servicemen who have received credit for two full years of physical education may elect to take additional courses which would be in the 300 series. PE 301, PE 302, PE 303, PE 304.
- 6—All students who have received one year of credit in physical education, from military service or as a transfer student, will be exempt from the hygiene requirement.
- 7—All students who take even one semester of physical education as a required course at North Carolina State College must pass the swimming requirement.

Hygiene: All freshmen must complete satisfactorily a half semester of hygiene or show adequate proficiency as measured by a Health Knowledge Test given during Orientation Week. Students who are exempted from Hygiene must substitute a sports activity.

COURSES

PE 101, 102	1 (0-2) f s
PE 201, 202	1 (0-2) f s
PE 301, 302, 303, 304 Junior and Senior Electives	1 (0-2) f s

Note: Juniors and seniors may elect any activity from the Controlled Elective Sports Area in which they have not previously received credit. Transfer students and veterans who cannot swim will be urged to elect beginning swimming.

ACTIVITIES IN PRESCRIBED SPORTS AREA

COURSES

Beginning Swimming: Offered in the fall semester. A course designed for meeting the college requirement and for preparing the student for Intermediate Swimming.

Fundamental Sports: Offered in the fall and spring. A course designed for the low skilled student where a particular type of activity can be given to meet his special needs.

Basic Sports: Offered in the fall and spring semesters. A course designed to acquaint the medium skilled student with appropriate activities in both team and individual self-testing items.

Hygiene: Offered in the second half of the fall semester, and in the first half of the spring semester. A course designed to guide the student to a more healthful way of life.

ACTIVITIES IN ELECTIVE SPORTS AREA

COURSES: TEAM SPORTS

Basketball: Offered in the second half of the fall semester and in the first half of the spring semester. A course designed to cover the fundamentals of shooting, offensive and defensive strategy, history and rules.

Football (touch): Offered in the first half of the fall semester. A course designed to cover the fundamentals of offensive and defensive play.

Soccer: Offered in the first half of the fall semester. A course designed to acquaint the student with the fundamental skills and to provide out-of-door activity in a team sport.

Softball: Offered in the second half of the spring semester. A course designed to include the fundamentals, history and rules of the game.

Volleyball: Offered in the first half of the fall semester, and in the entire spring semester. A course designed to include the fundamentals, history and rules of the game.

COURSES: INDIVIDUAL SPORTS

Angling: Offered in the first half of the fall semester, and the second half of the spring semester. A course designed to teach the fundamentals of spin, fly and bait casting, and an understanding of the game of skish.

Badminton: Offered in the second half of the spring semester. A course designed to give the beginner a thorough knowledge of the basic strokes and a general knowledge of the history, rules and strategy of the game.

- Bowling (Duck Pins):** Offered in the second half of the fall semester and in the first half of the spring semester. Fundamentals of the stance, approach and delivery are taught, together with rules, history, scoring and general theory of spare coverage. Students take turns setting pins. (Fee \$2.50).
- Bowling (Ten Pins):** Offered in the first and second half of the fall semester, and in the first half of the spring semester. Fundamentals of ball selection, grip, stance and delivery are taught, together with rules, history, scoring and general theory of spare coverage. Students take turns setting pins. (Fee \$2.50).
- Boxing:** Offered in the second half of the fall semester. A course designed to acquaint the student with the fundamentals, history and rules, with special emphasis on defensive techniques.
- Golf:** Offered in the first half of the fall semester and in the second half of the spring semester. A course designed for the beginner; grip, stance, swing and use of the various clubs, together with the history and etiquette of play.
- Gymnastics:** Offered in the second half of the fall semester and in the first half of the spring semester. A course designed to include the fundamentals of simple gymnastic stunts on the parallel bars, side horse, high bar, ropes and mats, together with history and rules.
- Handball:** Offered in both fall and spring semesters. A course designed to include the fundamentals, together with history and rules of handball.
- Roller Skating:** Offered during the second half of the fall semester and the first half of the spring semester. A course designed to teach the fundamentals of roller skating. Emphasis will be on body balance and control.
- Swimming (Intermediate)** Offered in both fall and spring semesters. A course designed to give the student competence in four basic strokes and two dives, preparatory to the Life Saving Program.
- Swimming (Senior Red Cross Life Saving):** Offered in the fall and spring semesters. Prerequisite: Intermediate Swimming or the equivalent. A course designed to qualify students for a Senior Red Cross Life Saving certificate and the possibility of a Water Safety Instructor's rating.
- Swimming (Red Cross Instructor's):** Offered in the fall and spring semesters. Prerequisite: A certificate for Senior Red Cross Life Saving. A course designed to qualify students for a Water Safety Instructor's rating.
- Tennis (Beginning):** Offered in the first half of the fall semester and in the second half of the spring semester. A course designed to give the beginner a thorough knowledge of the fundamental strokes and a general knowledge of the history rules and basic strategy of the game.
- Tennis (Advanced):** Offered in the first half of the fall semester and in the second half of the spring semester. Prerequisite: Beginning Tennis or its equivalent. Basic strokes are reviewed and the more difficult strokes taught. Emphasis is placed upon strategy during play and upon a more factual knowledge of the game and court etiquette.
- Track and Field:** Offered during the first half of the fall semester and second half of the spring semester. A course designed to develop knowledge, skill and interest in track and field events.
- Wrestling:** Offered in the first half of the fall semester and the first half of the spring semester. A course designed to give the fundamentals, history and rules of wrestling.

VARSITY SPORTS

Note: students may elect with the approval of the coach, the below listed varsity sports:

Baseball
Basketball
Cross-Country Track
Football
Golf

Soccer
Swimming
Track
Wrestling

PHYSICS

COURSES FOR UNDERGRADUATES

PY 201 202 GENERAL PHYSICS

5 (3-4) f s; f s

Co-requisite: MA 201

Required of sophomores in Engineering. A study of General Physics in which an analytical approach to the Principles of Physics is used. Emphasis is placed on problem solution and engineering applications. Recitations, demonstrated lectures, problem drill, and laboratory work are coordinated to give a working knowledge of the basic principles of physics. Py 201, mechanics, sound, and heat; Py 202, electricity, light, and modern physics.

PY 211, 212 GENERAL PHYSICS

4 (3-3) f s; s

Prerequisite: MA 111

Recitations with demonstrations and laboratory work. Py 211, mechanics and heat; Py 212, sound, light, and electricity.

PY 223 ASTRONOMY AND ASTROPHYSICS

3 (3-0) s

Prerequisites: Py 211 or 201 and 102

An introductory course in descriptive and physical astronomy. An introduction to the solar system, with some attention to constellations and star groups. Most of time is given to study of physical aspects of stars and star groups, including studies in brightness, temperature, energy and composition. Some time given to galaxies and inter-galactic space, with emphasis of nuclear fission and fusion and radio-astronomy. Observations using 5-inch refractor.

PY 311 LIGHT AND COLOR IN INDUSTRY

2 (2-0) f s

Prerequisite: PY 212

Survey of the fundamental principles of light and radiation; photometry, illumination and distribution of light; lighting calculations; fluorescent lighting; the physiological and psychological aspects of light and color; color theories, standardization of color; color contrast, and color harmony. Special emphasis placed on development of color harmony.

PY 322 DESCRIPTIVE METEOROLOGY

2 (2-0) f

Prerequisite: PY 212

Explanation of the weather and associated phenomena at an introductory level. Structure of the atmosphere; instrumentation; heat balance and primary circulation of the atmosphere; air masses, fronts, and waves; tertiary circulations; atmosphere of the lowest 10 meters.

PY 323 APPLIED METEOROLOGY

2 (2-0) s

Prerequisite: PY 322

Technique of application of meteorological data to problems in Engineering, Agriculture, Forestry, etc., where weather is a factor, using principle of expectations as the basis for analysis. Examples from several fields as illustrations of various analysis techniques.

PY 327 LABORATORY TECHNIQUES IN PHOTOGRAPHY

3 (2-3) f

Prerequisite: PY 212 or equivalent

A treatment of the general principles of photography with special applications in the fields of spectrography, micrography, Roentgenology, and nuclear physics.

PY 401, 402 INTERMEDIATE PHYSICS I

4 (3-3) f s

Co-requisite: MA 401

Mechanics (401), heat, and sound (402) on an intermediate level. Intermediate Physics I, together with Intermediate Physics II (403, 404), constitutes an integrated study of classical physics at the next level above general sophomore physics. Lectures, problems, and recitations, and one laboratory each week.

PY 403, 404 INTERMEDIATE PHYSICS II

4 (3-3) f s

Co-requisite: MA 401

Electricity and magnetism (403), and optics (404) on an intermediate level. Intermediate Physics II, together with Intermediate Physics I, constitutes an integrated study of classical physics at the next level above general sophomore physics. Lectures, problems, recitations, and one laboratory each week.

PY 407 INTRODUCTION TO MODERN PHYSICS

3 (3-0) f s

Prerequisites: PY 202, MA 202

A brief survey of the important developments in atomic and nuclear physics. Topics covered include: atomic and molecular structure, determination of the mass and charge of ions, origin of spectra, ion accelerators, nuclear reactions, and cosmic rays. Particular attention is paid to the practical applications of these developments.

PY 410 NUCLEAR PHYSICS I

4 (3-3) f s

Prerequisite: PY 407

An introductory treatment of the properties of nuclear particles and their interactions with matter. Consideration is given to natural and artificial radioactivity, nuclear reactions, fission, and the structure of simple nuclei.

PY 419 INTRODUCTION TO NUCLEAR ENGINEERING

2 (2-0) f

Prerequisite: PY 410

A survey of the engineering applications of nuclear energy. The principles and practices of isotope separation, production of plutonium, and nuclear reactor operation are studied along with the peace-time uses of products and by-products of nuclear reactors. Major engineering problems involved in each phase of the study are defined and the special methods of approach indicated.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

PY 501 WAVE MECHANICS AND APPLICATIONS

3 (3-0) f

Prerequisites: PY 407 and MA 401

An introductory course in wave mechanics with applications to the free particle, harmonic oscillator, rigid rotator, and the hydrogen atom. Includes discussion of approximation methods in the solutions of other problems. Primarily designed for a one semester introduction to wave mechanics for those students not specializing in theoretical physics.

PY 510 NUCLEAR PHYSICS II

4 (3-3) s

Prerequisite: PY 410

A continuation of Physics 410 with particular emphasis on neutron physics, nuclear energy levels, meson theory, nuclear resonance, atomic and molecular magnetism, and cosmic radiation.

PY 518 RADIATION HAZARD AND PROTECTION

3 (3-0) f s

Prerequisite: PY 410

The hazards from external exposure to ionizing radiation are evaluated. The dosages resulting from the ingestion of radioactive materials are computed. The precautionary methods used in radioactive work are presented. Selected biological effects of ionizing radiation are studied.

PY 520 PHYSICAL TECHNOLOGY IN RADIOACTIVITY

3 (2-3) f s

Prerequisite: PY 410

Emphasis in this course is on laboratory practices in detecting, handling, and quantitatively measuring radioactive samples. The preparation of samples for radioactivity measurements and the calculation methods used in analyzing such data are summarized.

PY 526 IONIZATION PHENOMENA AND ELECTRON OPTICS

2 (2-0) s

Prerequisites: PY 404, 410

Methods of producing ions, and the interaction of ions with electric and magnetic fields are discussed, together with a brief survey of the present status of electron optics.

PY 530 ELEMENTARY NUCLEAR REACTOR THEORY

3 (3-0) s

Prerequisites: PY 410; MA 511 or 532

A lecture course in the principles of chain reactors. Slowing down of neutrons, neutron diffusion equations, space distribution of neutrons, conditions for criticality, reactor dimensions for simple geometries, elementary group theories, and time dependent reactor behavior.

PY 531 NUCLEAR REACTOR LABORATORY

1 (0-3) f s

Co-requisite: PY 530, PY 518 except by permission

Observations on and measurements on the behavior of the nuclear reactor, and correlation with reactor theory. Experiments with apparatus involving the motion and detection of neutrons. Foil measurements of neutron flux. Irradiations in the reactor of samples to produce radioisotopes.

PY 541, 542 ADVANCED EXPERIMENTS IN PHYSICS

1 (0-3) f s

Prerequisites: PY 202, MA 202

Covers the techniques and theory of selected experiments in mechanics, heat, sound, light, or electricity. The treatment and interpretation of data are stressed.

PY 544 VIBRATION AND WAVE MOTION

3 (3-0) f

Prerequisites: PY 202, MA 401

The dynamics of vibratory and oscillatory motion. Analogies in mechanical, electrical and acoustical vibrating systems. Analysis of wave motion and propagation in different media.

PHYSICS

PY 545 APPLIED ACOUSTICS

3 (3-0) s

Prerequisite: PY 544

The dynamical theory of sound. Sources of sound, measurement of sound intensity, measurement of frequency, acoustical impedance and transmission of sound, sound filters and resonators, acoustics of speech and hearing, reception and reproduction of sound, acoustics of buildings.

PY 551 INTRODUCTION TO X-RAYS

3 (2-3) f

Prerequisites: PY 202, MA 202

Origin, production, absorption, single crystal diffraction, and powder diffraction of X-rays are studied. These basic topics are then applied to detection of defects in welds and castings and to the determination of crystal structure and particle and fiber size.

PY 552 INTRODUCTION TO THE STRUCTURE OF SOLIDS: CRYSTALLOGRAPHY

3 (3-0) s

Prerequisites: PY 202, MA 202; PY 551 recommended

Elementary consideration of amorphous and crystalline solids, metal conductors, and semiconductors. Some optical crystallography is included.

COURSES FOR GRADUATES ONLY

PY 601, 602 ADVANCED GENERAL PHYSICS

3 (3-0) f s

Prerequisites: PY 401, MA 511

Mathematical and theoretical approach to relationships between the various branches of physics, with applications to mechanical, electrical, optical, thermal, and vibratory problems. Generalization of underlying physical principles.

PY 610 ADVANCED NUCLEAR PHYSICS

3 (3-0) f

Prerequisite: PY 410; PY 611, except by permission

Current hypotheses of nuclear structure and reactions, including fission, theories of alpha emission, deuteron binding, neutron-proton scattering, the compound nucleus, and beta-decay. The use of neutrons in present day nuclear research is emphasized.

PY 611 612 QUANTUM MECHANICS

3 (3-0) f s

Prerequisites: PY 401, MA 532

Theory of quantum mechanics with applications to atomic and molecular structure, scattering phenomena, and the interaction of radiation with matter.

PY 619 HETEROGENEOUS REACTOR DESIGN

3 (3-0) t

Prerequisite: PY 530

Design analysis of heterogeneous power reactors. Theory of resonance capture, thermal utilization and flux distributions in multi-region systems. Transient and steady state poison effects. Heat transfer limitations in reactors. Evaluation of materials of construction, coolants and fuels. One-velocity transport theory.

PY 621 KINETIC THEORY OF GASES

3 (3-0) f

Prerequisites: PY 202, MA 511

The theory of molecular motion, including the velocity and density distribution functions, the phenomena of viscosity, heat conduction and diffusion; equations of state; fluctuations.

PY 622 STATISTICAL MECHANICS

3 (3-0) s

Prerequisites: PY 400, MA 511; PY 621, except by permission

A treatment of statistical mechanics from both the quantum and classical point of view. Development of theories from the thermodynamical standpoint and their practical application.

PY 630 HOMOGENEOUS REACTOR DESIGN

3 (3-0) s

Prerequisite: PY 530

Calculations of critical loading of homogeneous power reactors, flux distribution, control rod values, theory of two and multigroup methods and evaluation of group constants. Uses and limitations of age and diffusion theory. Energy dependent transport theory. The time-dependent behavior of a reactor with negative temperature coefficient.

PY 631, 632 ATOMIC AND MOLECULAR SPECTRA

3 (3-0) f s

Prerequisite: PY 404

Co-requisites: PY 611, MA 532

Atomic models and coupling schemes. Multiplet series, Zeeman, Paschen-Back, and Stark effects. Hyperfine structure and complex spectra. Spectra of polyatomic molecules. Infrared and Raman Spectra. Applications adapted to the interests of the students in the course.

PY 661, 662 THE SOLID STATE

3 (3-0) f s

Prerequisite: PY 552

The electron theory of conduction, electrical and thermal conduction in solids, and surface phenomena, with applications to physical behavior and usage of solids.

PY 670 SEMINAR

1 (0-3) f s

Literature surveys, written and oral presentation of papers on special topics.

PY 690 RESEARCH

Credits by arrangement

Graduate students sufficiently prepared may undertake research in some selected field of Physics.

PLANT PATHOLOGY

COURSES FOR UNDERGRADUATES

PP 315 PLANT DISEASES

3 (2-3) f

Prerequisites: BO 101, 102

The nature and symptoms of disease in plants and the characteristics of important plant pathogenic nematodes, viruses, bacteria, and fungi are studied. An understanding of the important concepts and methods of disease control is developed, based on a knowledge of major types of plant diseases.

Mr. Kelman

PP 318 DISEASES OF FOREST TREES

3 (2-3) s

Prerequisites: BO 101, 102

The nature and symptoms of major types of tree diseases and the important characteristics of their causal agents are studied. Emphasis is placed on the influence of environmental factors on disease development as well as the basic principles and methods of control.

Mr. Kelman

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

PP 503 DIAGNOSIS OF PLANT DISEASES

3 (1-4) summer

Prerequisites: One advanced course in Plant Pathology and permission of instructor

A study of techniques used in plant disease diagnosis with emphasis on diagnostic value of signs and symptoms for certain types of diseases. Consideration will be given to major sources of descriptive information on plant pathogens and the use of keys for the identification of fungi.

(Offered in 1958 and alternate years)

Mr. Hebert

PP 504 PLANT PARASITIC NEMATODES

2 (1-3) f

Prerequisites: PP 315

A study of morphology, anatomy, physiology and taxonomy of plant parasitic nematodes. Methods of isolating nematodes from soil and plant parts and other laboratory techniques used in the study and identification of nematodes will be considered.

Miss Hirschmann

PP 515 DISEASES OF FIELD CROPS

3 (2-2) s

Prerequisites: PP 315

An advanced study of the more important diseases of North Carolina field crops such as cotton, corn, tobacco, soybeans, alfalfa, clover, grasses and small grains with major emphasis on identification, cause and control.

Mr. Lucas

PP 516 DISEASES OF FRUIT CROPS

3 (2-2) s

Prerequisites: PP 315

Study of causes, symptoms, epiphytology, and principles of control of major diseases of pome, stone, nut, and berry crops.

(Offered in 1957-58 and alternate years)

Mr. Clayton

PP 517 DISEASES OF VEGETABLE CROPS

3 (2-2) s

Prerequisite: PP 315

Studies designed to provide the student with a working knowledge of the etiology, symptomatology, epiphytology, and control of major vegetable crop diseases.

(Offered in 1958-59 and alternate years)

Mr. Winstead

POULTRY

COURSES FOR GRADUATES ONLY

PP 601 PHYTOPATHOLOGY I **4 (1-6) f**
Prerequisites: PP 315 and permission of the instructor
A study of the principles of phytopathological research. The course is designed to apply the classical scientific method to disease investigation. Exercises will include appraising disease problems, reviewing literature, laboratory and greenhouse experiments and the evaluation and presentation of data.

Mr. Apple

PP 602 PHYTOPATHOLOGY II **4 (2-6) s**
Prerequisites: PP 315 and permission of the instructor
The basic concepts of the etiology, pathology, epiphytology and control of plant diseases. (Offered in 1958-59 and alternate years)

Mr. Nusbaum

PP 611 NEMATODE DISEASES OF PLANTS **3 (1-4) s**
Prerequisites: PP 504
A study of plant diseases caused by nematodes. Special consideration will be given to host-parasite relationships, host ranges, and life cycles of the more important economic species. Principles and methods of control will be considered.

Mr. Sasser

PP 615 RESEARCH IN PLANT PATHOLOGY **Credits by arrangement**
Prerequisites: Graduate standing and consent of adviser
Original research in connection with a thesis problem in Plant Pathology.

Graduate Staff

PP 617 SPECIAL PROBLEMS IN PLANT PATHOLOGY **Credits by arrangement**
Prerequisites: Graduate standing and consent of the instructor
Original research on special problems in Plant Pathology not related to a thesis problem but designed to provide experience and training in research.

Graduate Staff

PP 625 SEMINAR IN PLANT PATHOLOGY **1 (1-0) f s**
Prerequisite: Consent of seminar chairman
Discussion of phytopathological topics selected and assigned by seminar chairman.

Graduate Staff

POLITICAL SCIENCE — — — — —

SEE HISTORY AND POLITICAL SCIENCE

POULTRY — — — — —

COURSES FOR UNDERGRADUATES

PO 201 POULTRY PRODUCTION **4 (3-3) f s**
Prerequisites: Required of majors in Poultry Science
Elective for others
Principles of broiler, market eggs, hatching egg and turkey production. Classes, breeds and varieties identification of chickens and turkeys. Breeding, incubation, raising, housing, feeding, disease and parasite control, marketing of chickens, eggs and turkeys.

Messrs. Brown, Martin

PO 301 POULTRY JUDGING **2 (1-3) f**
Prerequisite: Required of majors in Poultry Science
Elective for others with permission of instructor
Judging of poultry for egg production, breeding and market qualities; judging dressed market carcasses and eggs.

Messrs. Brown, Bumgardner

PO 303 BIOLOGY OF THE FOWL **3 (1-6) s**
Prerequisites: Required of majors in Poultry Science
Elective for others with permission of instructor
A foundation course for juniors and senior poultry courses. Macroscopic embryology of the chick. Dissection and study of the gross anatomy of the chicken and turkey. Physiology of the tissues and organs. Endocrine control of reproduction. Formation and structure of the egg.

Mr. Bumgardner

PO 351 ADVANCED POULTRY JUDGING**1 (0-3) f**

Prerequisites: PO 301 Elective for majors in Poultry Science and for others with permission of instructor

Course consists of laboratory work for further practice and proficiency in poultry and egg judging.

Messrs. Brown, Bumgardner

PO 401 POULTRY DISEASES**4 (3-3) s**

Prerequisites: Required of majors in Poultry Science
Elective for others with permission of instructor

The major infectious, non-infectious and parasitic diseases of poultry are studied with respect to economic importance, etiology, susceptibility, dissemination, symptoms, lesions and diagnostic methods. Emphasis is placed upon practices necessary for the prevention, control and treatment of each disease.

Mr. Barber

PO 402 COMMERCIAL POULTRY FARM AND HATCHERY MANAGEMENT**4 (3-2) s**

Prerequisites: Required of majors in Poultry Science
Elective for others with permission of instructor

Principles of incubation of chicken and turkey eggs; hatchery management; Organization and development of plans for the operation and maintenance of a commercial poultry farm for meat and egg production; study of the types of buildings, equipment and methods of management currently employed by successful poultrymen in North Carolina. Problem.

Mr. Brown

PO 403 POULTRY SEMINAR**1 (1-0) f s**

Prerequisite: Required of seniors in Poultry Science

Current topics and problems relating to Poultry Science and to the poultry industry are assigned for oral report and discussion. Two semesters.

Staff

PO 404 POULTRY PRODUCTS**3 (2-3) f**

Prerequisites: ZO 101 or 102, CH 101

Required of majors in Poultry Science
Elective for others with permission of instructor

Selection, processing, grading, and packaging poultry meat and eggs. Factors involved in preservation of poultry meat and eggs.

Mr. Fromm

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES**PO 520 POULTRY BREEDING****3 (2-3) f**

Prerequisites: GN 411

Required of majors in Poultry Science
Elective for others with permission of instructor

Application of genetic principles to poultry breeding, considering physical traits and physiological characteristics—feather patterns, egg production, hatchability, growth, body conformation and utility.

Messrs. Glazener, Martin

PO 521 POULTRY NUTRITION**3 (2-3) f**

Prerequisites: CH 203, 451

Required of majors in Poultry Science
Elective for others with permission of instructor

A study of proteins, carbohydrates, fats, minerals and vitamins required for growth, egg production and reproduction in the chicken and turkey. Symptoms and lesions induced by nutritional deficiencies. Compounding different types of poultry mashes and methods of feeding these mashes. The production of certain vitamin and mineral deficiencies in chicks for observation and examination.

Mr. Kelly

PO 522 ENDOCRINOLOGY OF THE FOWL**3 (2-3) s**

Prerequisites: ZO 301 or equivalent

The endocrine system is studied with respect to its physiological importance in such intricate processes as metabolism, growth and reproduction. Emphasis is placed upon this system for the fowl, but mammalian examples are also used to illustrate basic concepts of the science. The interests of the students will be considered in the selection of illustrative material.

Mr. Garren

COURSES FOR GRADUATES ONLY

Graduate courses may not be offered if registration for the course is too low or if the faculty or facilities become unavailable.

PO 601 ADVANCED POULTRY BREEDING**3 (3-0) arrange**

Prerequisites: ST 511, 512; PO 520

Study of lethal, skeletal, and feather variations. Linkage and chromosome mapping of the fowl. Theory and contemporary ideas concerning breeding for meat and egg production in the fowl.

Mr. Blow

PSYCHOLOGY

PO 602 ADVANCED POULTRY NUTRITION

3 (0-6) arrange

Prerequisites: PO 521, CH 511 or equivalent

Students taking this course will conduct a research problem in poultry nutrition. This problem will involve the designing and carrying out of microbiological and chick experiments. The students will obtain practice in correlating results obtained in microbiological and chick assays.

Mr. Hill

PO 603 ADVANCED POULTRY HEMATOLOGY

3 (0-6) arrange

Prerequisites: Graduate standing; permission of instructor

Study of the hematopoietic system and blood formation in the chicken. The erythrocyte, the leucocyte, the thrombocyte, the bone marrow cells and their respective systems. Technics of blood and marrow examination. Quantitative and qualitative variations in the cells and their constituents. Mechanisms producing such variations, causes and effects.

Mr. Cook

PO 604 ADVANCED POULTRY DISEASES

3 (0-6) arrange

Prerequisites: ZO 452, 545

Graduate standing

Fundamentals of general pathology. Special pathology of infectious and nutritional diseases of the fowl. Study and interpretations of changes in the macroscopic and microscopic structures of the diseased tissues and organs of the fowl occurring under field and experimental conditions. The role of hematology, immunology and endocrinology in the diagnosis and prevention of poultry diseases.

Mr. Barber

PO 611 POULTRY RESEARCH

1-6 (arrange) f s

Credits: A maximum of six is allowed toward a Master's degree

Prerequisite: Graduate standing

Appraisal of present research, critical study of some particular problem involving original investigation. Problems in poultry breeding, nutrition, disease, endocrinology, hematology or microbiology.

Graduate Staff

PO 613 SPECIAL PROBLEMS IN POULTRY SCIENCE

1-6 (arrange) f s

Prerequisites: Graduate standing

Specific problems of study are assigned in various phases of poultry science.

Graduate Staff

PSYCHOLOGY — — — — —

COURSES FOR UNDERGRADUATES

PSY 200 INTRODUCTION TO PSYCHOLOGY

3 (3-0) f s

A study of the general characteristics and development of human behavior, emphasizing the problems of motivation, emotion, learning and thinking.

Staff

PSY 201 ELEMENTARY EXPERIMENTAL PSYCHOLOGY

3 (2-3) f

Prerequisite: PSY 200

Introduction to experimental psychology. Two lectures and one laboratory period per week. Messrs. Barkley, Cook, Newman

PSY 302 PSYCHOLOGY OF PERSONALITY AND ADJUSTMENT

3 (3-0) f

Prerequisite: PSY 200

A study of the factors involved in the development of the normal personality, emphasizing the principal factors controlling human behavior and their relationship to adjustment mechanisms.

Mr. Corter

PSY 304 EDUCATIONAL PSYCHOLOGY

3 (3-0) f

PSY 200 recommended as an introductory course

Applications of psychology to education; problems of learning, motivation, interests; the measurement of educational efficiency; mental hygiene.

Messrs. Johnson, Barkley, Newman

PSY 307 GENERAL APPLIED PSYCHOLOGY

2 (2-0) s

Prerequisite: PSY 200

A study of the application of principles of psychology in medicine, law, advertising, selling, vocational guidance, the arts and athletics.

Mr. Barkley

PSY 337 INDUSTRIAL PSYCHOLOGY I

3 (3-0) f s

Prerequisite: PSY 200

The application of psychological principles to the problems of modern industry; methods of work, monotony, fatigue, accidents, motivation and morale of workers.

Staff

COURSES FOR ADVANCED UNDERGRADUATES

- PSY 438 INDUSTRIAL PSYCHOLOGY II** 3 (3-0) s
 Prerequisite: PSY 200, 337
 The application of psychological principles to the problems of modern industry; selection, placement and training of workers.
 Mr. Askren
- PSY 441 HUMAN FACTORS IN EQUIPMENT DESIGN** 3 (3-0) s
 Prerequisite: PSY 200
 Human factors in the design of machines and other equipment. Sensing, computing and controlling as human functions which have been extended to machines. Human characteristics which affect equipment design. A "systems analysis" approach to man-machine problems, in which man and machine are considered as a whole.
 Messrs. Cook, Gray
- PSY 464 VISUAL PERCEPTION FOR DESIGNERS** 3 (3-0) f
 Prerequisite: PSY 200
 The nature of the seeing process and its relation to architecture, industrial arts and to the industrial, engineering and textile design fields. Topics include the physical basis of sight, perception of color and form, vision and illumination, psychological factors in visual design and a unit of training planned to improve the student's ability to perceive visual form.
 Mr. Cook
- PSY 475 CHILD PSYCHOLOGY** 3 (3-0)
 Prerequisite: PSY 200 or 304
 Course offered during Summer session only
 The development of the individual child of the elementary school age will be the inclusive subject of study in this course. Emphasis will be placed upon the intellectual, social, emotional and personality development of the child. Physical growth will be emphasized as necessary to an understanding of the psychological development of the pupil.
 Mr. Barkley
- PSY 476 PSYCHOLOGY OF ADOLESCENCE** 2 (2-0) s
 Prerequisite: PSY 200 or 304
 Mental growth, social development and interests of adolescent boys and girls.
 Messrs. Johnson, Barkley
- PSY 490 SOCIAL PSYCHOLOGY** 3 (3-0) s
 Prerequisite: PSY 200
 Social applications of psychology; social stimulation, response and attitudes.
 Messrs. Barkley, Miller

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

- PSY 501 INTERMEDIATE APPLIED EXPERIMENTAL PSYCHOLOGY** 3 (2-3) f or s
 Prerequisite: PSY 200 and six additional hours in Psychology
 Experimental study of problems in the major areas of general and theoretical psychology which have special significance in educational, industrial and applied social psychology. Emphasis will be placed upon description of problems, study of methods, design of experiments and procedures for the analysis and presentation of data. Two lectures and one laboratory period per week.
 Messrs. Barkley and Cook
- PSY 504 ADVANCED EDUCATIONAL PSYCHOLOGY** 3 (3-0) s
 Prerequisite: Four hours in Psychology
 Course offered in alternate years
 An advanced course giving a critical appraisal and a consideration of the practical applications for vocational education of modern psychological findings.
 Messrs. Johnson, Barkley, Newman
- PSY 511 ADVANCED SOCIAL PSYCHOLOGY** 3 (3-0) s
 Prerequisites: PSY 200 and six additional hours in Psychology
 Course offered in alternate years
 A study of social relationships and their psychological bases; emphasis on those aspects of behavior determined by personal interactions; work will involve analysis of representative research studies, and doing individual projects in industrial and rural areas.
 Messrs. Barkley, Miller
- PSY 530 ABNORMAL PSYCHOLOGY** 3 (3-0) s
 Prerequisites: PSY 200, 302
 A study of the causes, symptomatic behavior and treatment of the major personality disturbances, with emphasis placed on preventive mental hygiene methods.
 Mr. Corter

PSYCHOLOGY

PSY 535 TESTS AND MEASUREMENTS

3 (3-0) f

Prerequisite: Three hours in Psychology

A study of available tests, with emphasis on proper selection and use of testing instruments; also a study of statistical procedures needed in the proper use of tests, including measures of central tendency, variability and correlation.

Messrs. Corter, Johnson

PSY 550 MENTAL HYGIENE IN TEACHING

3 (3-0) f

Prerequisite: Four hours in Psychology

A survey of mental hygiene principles applicable to teachers and pupils; practical problems in prevention and treatment of psychological problems in schools; case studies and research.

Messrs. Barkley, Corter

PSY 560 TEST CONSTRUCTION

3 (3-0) f

Prerequisites: Twelve hours in Psychology including Intermediate Statistics (ST 513 or equivalent)

Course offered in alternate years

Analyzes the steps necessary for the development of tests, including job analysis, test development of different types of items, item analysis, establishment of norms and determination of reliability. Emphasis placed on construction of mechanical tests with application to industry. Students will be given opportunity for construction of tests.

Mr. Gray

PSY 565 INDUSTRIAL MANAGEMENT PSYCHOLOGY

3 (3-0) f or s

Prerequisites: PSY 200 and three additional hours in Psychology

This course is designed for management personnel in industry and graduate students in psychology who wish to familiarize themselves with industrial problems. Emphasis will be placed on principles and methods for obtaining better utilization of employee resources of ideas, attitudes and motivations.

Mr. Miller

PSY 570 INTELLIGENCE: THEORY AND MEASUREMENT I

3 (3-0) f

Prerequisites: PSY 200 and three additional hours in Psychology

An introduction to individual intelligence testing, theoretical background of intelligence testing, clinical introduction to intelligence testing, case studies and research.

Mr. Corter

PSY 571 INTELLIGENCE: THEORY AND MEASUREMENT II

3 (3-0) s

Prerequisite: PSY 570

A practicum in individual adult intelligence testing with emphasis on the Wechsler-Bellevue, other performance tests of intelligence, report writing and case studies.

Mr. Corter

PSY 572 INTELLIGENCE: THEORY AND MEASUREMENT III

3 (3-0)

Prerequisite: PSY 570

Course offered during Summer session only

A practicum in individual intelligence testing of infants, children and adults with emphasis on the Stanford-Binet, other tests, report writing, case studies and consultation with teachers.

Mr. Corter

PSY 576 ADVANCED ADOLESCENT PSYCHOLOGY

3 (3-0) s

Prerequisite: PSY 476

An advanced course in psychology of adolescence in which the student considers the original work of leaders in this field, thus laying the foundation for a critical appreciation of the new studies that are constantly appearing.

Mr. Johnson

PSY 578 INDIVIDUAL DIFFERENCES

3 (3-0) f

Prerequisite: Four hours in Psychology

Nature, extent and practical implications of individual differences and individual variation.

Mr. Barkley

COURSES FOR GRADUATES ONLY

PSY 604 APPLIED EXPERIMENTAL PSYCHOLOGY

3 (2-3) f or s

Prerequisite: Eight hours in Psychology including experimental psychology

Experimental analysis of problems of sensation, perception, learning, thinking, emotions, fatigue and neuro-muscular reactions. Emphasis upon methods of experimental control, design of experimental apparatus and accuracy of reports as these are related to laboratory investigations in the fields of applied psychology.

Messrs. Barkley, Cook

PSY 607 ADVANCED INDUSTRIAL PSYCHOLOGY I

3 (3-0) f

Prerequisite: Eight hours in Psychology

Discussion, analysis and evaluation of psychological problems in industry; training, selection and placement of the worker. Emphasis on current research and study of psychological programs operating in different industries.

Messrs. Askren, McGehee, Miller

PSY 608 ADVANCED INDUSTRIAL PSYCHOLOGY II

3 (3-0) s

Prerequisite: Eight hours in Psychology

Discussion, analysis and evaluation of psychological problems in industry; morale, attitudes, fatigue, accidents and maladjusted workers. Emphasis on current research and study of psychological programs operating in different industries.

Messrs. Askren, McGehee, Miller

PSY 609 PSYCHOLOGICAL CLINIC PRACTICUM

Maximum 3 hours f s

Prerequisite: Eight hours in Psychology

Clinical participation in interviewing, counseling, psychotherapy and administration of psychological tests. Practicum to be concerned with college students, adults and children.

Mr. Corter

PSY 610 APPLIED IMPLICATIONS OF THEORIES OF LEARNING

3 (3-0) s

Prerequisite: Eight hours in Psychology

Course offered in alternate years

A study of theories of learning with emphasis upon applications of the principles of learning in industrial and school situations.

Messrs. Barkley, Johnson, Newman, Cook

PSY 612 SEMINAR IN INDUSTRIAL PSYCHOLOGY

3 (3-0) s

Prerequisite: Eight hours in Psychology

Scientific articles, analysis of experimental designs in industrial psychology and study of special problems of interest to graduate students in Industrial Psychology.

Graduate Staff

PSY 613 RESEARCH IN PSYCHOLOGY

Credits by arrangement

Prerequisite: Eight hours in Psychology

Individual or group research problems; a maximum of six credits is allowed toward the Master's degree.

Graduate Staff

RURAL SOCIOLOGY

COURSES FOR UNDERGRADUATES*

RS 204 NORTH CAROLINA RURAL LIFE

2 (2-0) f s

Introduction to the specific patterns of rural living in North Carolina; structure and function of the groups in which North Carolina rural people participate; major social institutions and their related problems; and organized efforts to improve community life in the state.

Staff

RS 301 SOCIOLOGY OF RURAL LIFE

3 (3-0) f s

Prerequisite: Completion of the freshman year

A systematic sociological analysis of the characteristics, institutions and problems of rural life. Part I is a brief description of the basic concepts, the theoretical framework and the method of analysis of institutions and problems. Part II consists of systematic analyses of the major social institutions and their respective problems. Part III portrays the role of the community as an area of institutional functioning and societal integration.

Staff

RS 321 INTRODUCTION TO SOCIAL RESEARCH

2 (2-0) f s

Prerequisite: RS 301

Designed to give the student a basic understanding of the methods of sociological research. Reviews the scientific method and its application to the design of social research including the collection, analysis, and interpretation of social data. Appropriate ways of presenting the findings and of making the greatest use of the data are presented. Critical and objective thinking are stressed throughout the course.

Messrs. Young and Mayo

RS 322 INTRODUCTION TO RURAL SOCIAL WORK

3 (3-0) s

Prerequisite: RS 301 or permission of the instructor

Constructed to acquaint the preprofessional student with the subject matter of social work as well as its related professional fields. Attention is given to three major areas: (1) case work in various settings; (2) group work, and (3) community organization. Public and private agencies which employ persons trained in social work are studied.

Mr. Mayo

RS 441 RURAL SOCIAL PATHOLOGY

3 (3-0) f

Prerequisite: RS 301 or permission of the instructor

A study of major social problems in modern society: physical and mental health, family instability, crime and penology and minority group problems. A framework for analysis and understanding is presented and stressed throughout including a positive approach for pre-

Mr. Mayo

RURAL SOCIOLOGY

RS 442 RURAL SOCIAL STRUCTURE

3 (3-0) s

Prerequisite: RS 301 or permission of the instructor

Social structure is viewed in its two major dimensions: (1) vertically through the concepts of social stratification; and (2) horizontally as a set of basic social institutions interacting by means of a system of concrete social organizations. Particular attention is given to the place of the rural segment in the total social system. The bases of social cohesion which permit diversity within a functioning whole are examined.

Mr. McCann

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES*

RS 511 RURAL POPULATION PROBLEMS

3 (3-0) f

Prerequisite: RS 301

A study of population growth, rates of change and distribution. Considerable attention is given to the functional roles of population, i. e., age, sex, race, residence, occupation, marital status and education. The dynamic aspects of population are stressed: fertility, mortality and migration. Population policy is analyzed in relation to national and international goals. A world view is stressed throughout.

Mr. Mayo

RS 512 RURAL FAMILY LIVING

3 (3-0) s

Prerequisite: RS 301

Values, patterns and levels of rural family living. Differentials and factors related thereto in the world, the nation and North Carolina. Analysis of selection problems, programs, policies and methods of study.

Mr. Hamilton

RS 513 COMMUNITY ORGANIZATION

3 (3-0) s

Prerequisite: RS 301

Community organization is viewed as a process of bringing about desirable changes in community life. Community needs and resources available to meet these needs are studied. Democratic processes in community action and principles of community organization are stressed along with techniques and procedures. The roles of leaders, both lay and professional, in community development are analyzed.

Mr. Mayo

RS 523 LAND TENURE SYSTEMS

3 (3-0) f

Prerequisite: Permission of the instructor

A systematic sociological analysis of the major agricultural land tenure systems of the world with major emphasis on the problems of family farm ownership and tenancy in the United States.

Mr. Hamilton

RS 534 (Same as HI 534) FARMER'S MOVEMENTS

3 (3-0) s

Prerequisite: 3 hours of Sociology

A history of agricultural organizations and movements in the United States and Canada principally since 1865, emphasizing the Grange, the Farmers' Alliance, the Populist revolt, the Farmers' Union, the Farm Bureau, the Equity societies, the Non-partisan League, co-operative marketing, government programs and present problems.

Mr. Noblin

RS 541 SOCIAL AGENCIES AND PROGRAMS

3 (3-0) f

Prerequisite: 3 hours of Sociology

Study of social agencies and programs and their implementation through specific organizations in dynamic relation with the people whom they serve. Consideration is given to the relation of these agencies and programs to community structure and forces in rural society; coordination of the several types of agencies and programs; professional leadership in the local community; and problems of stimulating local leadership and participation.

Mr. Mayo

COURSES FOR GRADUATES ONLY*

RS 611 RESEARCH METHODS IN SOCIOLOGY

3 (3-0) f

Prerequisite: Permission of the instructor

Designed to give the student a mature insight into the nature of scientific research in sociology. Assesses the nature and purpose of research designs, the interrelationship of theory and research, the use of selected techniques and their relation to research designs, and the use of modern tabulation equipment in research.

Mr. McCann

* Additional courses, suitable for rural sociology majors and graduates students, are listed below in the offerings of the Department of Sociology and Anthropology. Other sociology courses especially suitable for advanced students and graduates are offered by the Department of Sociology and Anthropology of the University at Chapel Hill.

RS 621 RURAL SOCIAL PSYCHOLOGY**3 (3-0) f**

Prerequisite: Permission of the instructor

Treats the genetic development of the rural personality and the interrelationship of the individual and the rural society. Studies the social psychological factors related to rural leadership, morale, social organization and social change, and examines the attitudes and opinions of rural people on current local and national issues.

Mr. McCann

RS 631 POPULATION ANALYSIS**3 (3-0) s**

Prerequisite: Permission of the instructor

Methods of describing, analyzing and presenting data on human populations: distribution, characteristics, natural increase, migration and trends in relation to resources.

Mr. Hamilton

RS 632 RURAL FAMILY**3 (3-0) f**

Prerequisite: Permission of the instructor

Emphasis is placed on the development of an adequate sociological frame of reference for family analysis; on discovering both the uniquely-cultural and common-human aspects of the family by means of cross-cultural comparisons; on historical explanations for variability in American families with especial concern for the rural family; and on analyzing patterns of family stability and effectiveness.

Mr. Hamilton

RS 633 THE RURAL COMMUNITY**3 (3-0) s**

Prerequisite: Permission of the instructor

The rural community is viewed in sociological perspective as a functioning entity. A method of analysis is presented and applied to eight "dimensions," with emphasis on the unique types of understanding to be derived from measuring each dimension. Finally, the effect of change on community integration and development is analyzed.

Mr. Mayo

RS 641 STATISTICS IN SOCIOLOGY**3 (3-0) f**

Prerequisite: ST 513

The application of statistical methods in sociological research. Emphasis on selecting appropriate models, instruments and techniques for the more frequently encountered problems and forms of data.

Mr. Hamilton

RS 642 RESEARCH IN RURAL SOCIOLOGY**Credits by arrangement**

Prerequisite: Permission of chairman of graduate study committee. (Maximum of six credits) Planning and execution of research, and preparation of manuscript under supervision of graduate committee.

Graduate Staff

RS 652 COMPARATIVE RURAL SOCIETIES**3 (3-0) f**

Prerequisites: Permission of the instructor

Sociological analysis of rural societies around the world with particular reference to North and South America. Special emphasis is given to cultural and physical setting, population comparison, levels of living, relationship of the people to the land, structure and function of the major institutions and forces making for change.

Mr. Mayo

RS 653 THEORY AND DEVELOPMENT OF RURAL SOCIOLOGY**3 (3-0) s**

Prerequisite: Permission of the instructor

Required of all masters and doctoral candidates in Rural Sociology and recommended for all graduate minors. Designed to meet two objectives: (1) to introduce the student to the study of current sociological theory and (2) to survey events and trends in the historical development of rural sociology.

Mr. Hamilton

RS 671 SEMINAR**Credits by arrangement**

Appraisal of current literature; presentation of research papers by students; progress reports on departmental research; review of developing research methods and plans; reports from scientific meetings and conferences; other professional matters. (A maximum of three credits is allowed toward the master's degree, and six credits toward the doctorate.)

Graduate Staff

SOCIOLOGY AND ANTHROPOLOGY

SOCIAL STUDIES

SS 301, 302 CONTEMPORARY CIVILIZATION

3 (3-0) f s

Prerequisites: For engineering students ENG 205, HI 205, EC 205; for others, permission of the Department

An examination of the major concepts, methods and values that characterize modern thought in the fields of physical science, the humanities and the social sciences. The course utilizes the student's previous training, plus materials from the history and philosophy of science and the history of technology to demonstrate the essential interrelatedness of scientific, social, and aesthetic activity.

SS 491, 492 CONTEMPORARY ISSUES

3 (3-0) f s

Prerequisites: For engineering students, SS 301, 302; for others, permission of the Department
This course deals with concrete current problems as they arise from day to day in the world of public affairs. These problems are studied and discussed in the context of a search for a more realistic definition of the limits of freedom and authority. Text materials are books, magazines and newspapers.

SOCIOLOGY AND ANTHROPOLOGY — — — — —

COURSES FOR UNDERGRADUATES

ANT 205 PEOPLE OF THE WORLD

3 (3-0) f s

This course seeks to develop insights of wide applicability concerning human relationships and the adjustment of man to his geographical, social, and cultural environments. The course is designed to demonstrate interrelationships among diverse factors affecting human behavior in all societies.

ANT 251 THE STUDY OF MAN

3 (3-0) f

The study of the development of the man as a species; analysis of the formation and spread of races; introduction to archaeology as a study of the material remains of ancient man and his activities.

ANT 252 CULTURAL ANTHROPOLOGY

3 (3-0) s

The analysis of various living societies and their cultures in terms of social adjustment to recurrent needs.

SOC 111, 112 THE AMERICAN WAY OF LIFE

2 (2-0) f s

Designed to introduce foreign students to the culture of the United States. Students are helped to develop an understanding of the basic values and traditions of American society and an insight into the problems that confront it in the world today. Each semester is independent.

SOC 202 MAN AND SOCIETY (GENERAL SOCIOLOGY)

3 (3-0) f s

Introduction to the scientific study of man's behavior in relation to other men, the general laws affecting the organization of such relationships and the effects of social life on human personality and behavior.

SOC 301 HUMAN BEHAVIOR

3 (3-0) f s

A study of the effects of social interaction upon individual behavior and personality; collective attitudes and behavior as products of group experience; analysis of fashions and fads, crowds, mobs, public, social movements.

SOC 302 PUBLIC RELATIONS AND MODERN SOCIETY

3 (3-0) f s

A study of the social and community setting of public relations, followed by a more intense analysis of the development and composition of social groups and the processes involved in group organization. General characteristics and techniques of leadership in the field of public relations are analyzed and tested in the classroom. The student will study the significance and function of mass communication media and the expansion of the social functions of technical specialists and executives. The course concludes with a consideration of the role of public relations in regional and international affairs.

SOC 303 CURRENT SOCIAL PROBLEMS

3 (3-0) f s

Study of the social and cultural aspects of specific problems such as crime, divorce, race conflict, illness, poverty, housing, recreation and personality adjustment to demonstrate the basic integration of society and community life.

SOC 304 CONTEMPORARY FAMILY LIFE

3 (3-0) f s

Basic interactions involved in courtship, marriage and family life; analysis of the influence of family life upon economic, social, political and religious activities; cultural and technological changes affecting the family; analysis of family structure and functions.

SOC 305 RACE RELATIONS

3 (3-0) f s

Analysis of race relationships both in the United States and throughout the world with particular emphasis on factors producing the changes taking place at the present time.

SOC 306 DELINQUENCY AND CRIME

3 (3-0) f s

Causes and conditions leading to delinquency; delinquency as a forerunner of crime; characteristics of the offender; methods of prevention and treatment of crime.

SOC 401 HUMAN RELATIONS IN INDUSTRIAL SOCIETY

3 (3-0) f s

Selected societies about the world contrasted with American society to demonstrate correlation between technology and general behavior patterns, both within industry and in the total social order; analysis of patterns of adjustment by the individual to the organizational framework in terms of social status, social roles, work norms and attitudes; social significance of major characteristics of contemporary industry; inter-relationship between industry and social change; contribution of industry to social progress.

SOC 402 CITY LIFE

3 (3-0) f s

A study of the factors behind the organic growth of cities; the relationship between the physical design of cities and their social organization; detailed analysis of new developments in the serving of human needs; comparison of socio-psychological aspects of life in an urban society with those of predominantly agricultural societies; increasing integration of urban and rural living; study of demand for city and regional planning and use of administrative personnel with both technical and social backgrounds created by changing character of urban life.

SOC 411 COMMUNITY RELATIONSHIPS

3 (3-0) f s

A survey of the institutions, organizations and agencies found in modern communities; social problems and conditions with which they deal; their interrelationship and the trend toward over-all planning.

SOC 412 INTRODUCTION TO SOCIAL WORK

3 (3-0) f s

A course designed to acquaint students with the various types of public and private social work and with remedial and preventive programs in applied sociology, social psychiatry, health, public welfare and recreation.

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

SOC 501 LEADERSHIP

3 (3-0) f s

Prerequisites: SOC 202, 301 or equivalent

A study of leadership in various fields of American life; analysis of the various factors associated with leadership, with particular attention given to recreational, scientific and executive leadership problems.

Mr. Winston

SOC 502 SOCIETY, CULTURE, AND PERSONALITY

3 (3-0) f s

Prerequisites: SOC 202, 301 or equivalent

Human personality from its origins in primary groups through its development in secondary contacts and its ultimate integration with social norms. Emphasis is placed upon the normal personality and the adjustment of the individual to our society and our culture. Dynamics of personality and character structure are analyzed in terms of the general culture patterns and social institutions of society.

Messer. Rawls, Winston

SOC 504 EDUCATION IN MODERN SOCIETY

3 (3-0) f s

Prerequisites: SOC 202, 301 or equivalent

Social factors conditioning learning and formal education; the social role of the teacher in the classroom and in the community; the function of the school in social change and progress.

Mr. Johnson

SOC 505 THE SOCIOLOGY OF REHABILITATION

3 (3-0) f s

Prerequisites: SOC 202, 301 or equivalent

The course stresses the social and cultural implications of the rehabilitation approach. Emphasis is placed upon the social and personal problems of physically and mentally handicapped persons. The interrelationships of the major social environments are considered at length in this regard. Objectives of the rehabilitation processes are analyzed in terms of the sociology of work. A major portion of the course is devoted to rehabilitation as a profession, particular attention being given to the diverse roles of specialists in this field.

Mr. Rawls

SOC 510 INDUSTRIAL SOCIOLOGY

3 (3-0) f s

Prerequisites: SOC 202, 301 or equivalent

Industrial relations analyzed as group behavior with a complex and dynamic network of rights, obligations and rules; the social system as an interdependent part of total community life; background and functioning of industrialization studied as social and cultural phenomena; analysis of specific problems of industry.

Mr. Johnson

SOILS

SOC 515, 516 RESEARCH IN APPLIED SOCIOLOGY

3 (arrange) f s

Prerequisites: SOC 202, 301 or equivalent

Individual research problems in applied fields of sociology, such as problems of the family, population and social work; rural-urban relations; student success; American leadership.

Graduate Staff

SOILS — — — — —

COURSES FOR UNDERGRADUATES

SOI 200 SOILS

4 (3-3) f s

Prerequisite: CH 103 or 203, MIG 120 is recommended but not required

The fundamental properties of soils and their relation to proper soil management. Geological information important to an understanding of soils and agriculture is presented for a better understanding of the interrelationship which exists between soils and management.

Mr. Folks

SOI 302 SOILS AND PLANT GROWTH

3 (3-0) s

Prerequisite: SOI 200, BO 102, PY 211

An examination of the fundamental chemical, physical and microbiological characteristics of soils as related to crop production. The chemical and mineralogical composition of soils; ion exchange, soil reaction and the solubilities of plant nutrients; transformations between organic and inorganic forms of plant nutrients; water and air relations in soils; lecture—demonstrations will be used to illustrate fundamental soil properties and to acquaint students with methods used in the study of soils.

Mr. Coleman

SOI 302 L SOILS AND PLANT GROWTH

1 (0-1)

Prerequisites: SOI 302, CH 212 or 215

Laboratory experiments to illustrate fundamental soil chemical and physical properties and to acquaint the student with techniques used in soil studies.

SOI 341 SOIL FERTILITY AND FERTILIZERS

3 (3-0) f

Prerequisite: SOI 200, BO 102

History of Plant Nutrition and Soil Fertility. Plant nutrition and growth as related to crop fertilization. Fertilizer materials, their manufacture, properties and usage. Fertilizer practices as related to a sound soil management program.

Mr. McCants

SOI 452 SOIL CLASSIFICATION

3 (2-3) s

Prerequisite: SOI 200

The processes involved in the origin of soil and its properties are explained. Logical schemes of soil classification and soil management are developed based upon soil profile properties as operational criteria. The laboratories and field trips are designed to teach the student how to recognize certain soil profile properties and inferences which may be drawn from them.

Mr. Folks

SOI 461 SOIL CONSERVATION AND MANAGEMENT

3 (3-0) f

Prerequisite: SOI 302 or permission of instructor

The history and status of erosion and fertility conditions; the economic and social aspects of soil conservation; the effects of climatic factors, vegetation (forest, sod crops, cover crops and rotations), soil properties, and other management practices on soil conservation and fertility maintenance.

Mr. Lutz

SOI 480 SENIOR SEMINAR

1 (1-0) f s

Prerequisite: Senior standing in the School of Agriculture

A student participation course in which the student will prepare and present thorough and documented discussions of important soils topics.

Staff

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

SOI 511 SOIL PHYSICS

4 (3-3) f

Prerequisites: SOI 200, PY 212

Physical constitution and analyses; soil structure, soil water, soil air and soil temperature in relation to plant growth.

Mr. Lutz

SOI 521 SOIL CHEMISTRY

4 (3-1) f

Prerequisites: SOI 341, CH 212, 532

Chemical composition and properties of soil, particularly concerning clay mineralogy, chemical processes of weathering and chemical properties of clays. The laboratory is concerned with procedures for the separation and identification of soil constituents and studies of certain fundamental properties of clay systems.

Mr. Weed

SOI 522 SOIL CHEMISTRY (Biochemical)**4 (3-1) s**

Prerequisites: SOI 341, CH 212, 532

The chemistry of ion exchange phenomena of clay minerals and organic colloids in soils. Biochemical and mathematical concepts of the dynamic equilibrium involved in ion exchange and nutrient uptake by living organisms. Laboratory consists of fundamentals and quantitative evaluation of the chemical nature and properties of soils.

Mr. Volk

SOI 532 SOIL MICROBIOLOGY**3 (3-0) f**

Prerequisites: SOI 200, BO 312

The more important microbiological processes that occur in soils; decomposition of organic materials, ammonification, nitrification and nitrogen fixation.

Mr. Bartholomew

SOI 551 SOIL MORPHOLOGY, GENESIS AND CLASSIFICATION**4 (3-3) f**

Prerequisites: SOI 200, CH 212, MIG 120

Morphology: Study of concepts of soil horizons and soil profiles and chemical, physical and mineralogical parameters useful in characterizing them. Genesis: Critical study of soil forming factors and processes. Classification: Critical evaluation of historical development and present concepts of soil taxonomy with particular reference to Great Soil Groups as well as discussion of logical basis of soil classification. Laboratory comprises field trips for field study of soil profiles representative of Great Soil Groups present in North Carolina, and a number of exercises illustrating methods of study of soil Morphology.

Mr. McCracken

SOI 570 SPECIAL PROBLEMS**Credits by
arrangements**

Prerequisite: SOI 201, CH 212

Special problems in various phases of Soils. Problems may be selected or will be assigned. Emphasis will be placed on review of recent and current research.

Staff

COURSES FOR GRADUATES ONLY***SOI 611 ADVANCED SOIL PHYSICS*******4 (arranged)**

Prerequisites: SOI 511, MA 401, PY 202

An introduction into the usage of theoretical methods in soil physics. Lectures, literature and discussions centered around problems in the movement of soil water, soil gases and heat flow through soils.

Mr. Van Bavel

SOI 622 ADVANCED SOIL CHEMISTRY**2-4 by
arrangement**

Prerequisites: SOI 521, 522

A critical examination of current ideas in Soil Chemistry and related fields. Topics will include ion exchange, ionic and molecular absorption, electrokinetics, relations between the structures of mineral and organic soil components and their chemical and physical properties.

Mr. Coleman

SOI 632 ADVANCED SOIL MICROBIOLOGY**2-4 as
arranged**

Prerequisites: SOI 522, 531, CH 421, 422

A critical examination of information relating to the nature and value of microbiological processes in soil. Segments of the course will be devoted to: (1) Formation, chemical composition and biological stability of soil organic matter; (2) Biological transformations of nitrogen; (3) Function of organic matter in soil; (4) Factors influencing nitrogen fixation; and (5) Plantmicrobial relationships.

Mr. Bartholomew

SOI 642 ADVANCED SOIL FERTILITY****3 (3-0) s**

Prerequisites: SOI 511, 521, 522

Soil conditions affecting crop growth; the chemistry of soil and plant interrelationships; theoretical and applied aspects of fertilizer usage in relation to plant nutrition.

Mr. Fitts

SOI 651 ADVANCED SOIL GENESIS AND CLASSIFICATION**2-3, by arrangement f or s**

Prerequisites: SOI 521, 551

A critical study of current theories and concepts in soil genesis and morphology; detained study of soil taxonomy. Topics include weathering and clay mineral genesis as related to soil morphology and genesis, functional analyses of soil genesis, properties of and processes responsible for soil profiles formed under various sets of soil forming factors, classification theory and logic as applied to soil classification, sturcture of soil classification schemes. Any of these topics may be emphasized at the expense of the others according to interests of students.

Mr. McCracken

TEXTILES

SOI 680 SEMINAR

1 (1-0) f s

Prerequisite: Graduate standing in Soils

Scientific articles, progress reports in research and special problems of interest to agronomists reviewed and discussed.

A maximum of two credits is allowed toward the Master's degree, but any number toward the Doctorate.

Graduate Staff

SOI 690 RESEARCH

Credit by
arrangements

Prerequisite: Graduate standing in Soils

A maximum of six credits is allowed toward the Master's degree, but any number toward the Doctorate.

Graduate Staff

* Students are expected to consult the instructor before registration

** Offered in 1958-59 and in alternate years.

*** Offered in 1959-60 and in alternate years.

STATISTICS

SEE EXPERIMENTAL STATISTICS

SCHOOL OF TEXTILES

COURSES FOR UNDERGRADUATES

TX 101 YARN PRINCIPLES

2 (1-2) f s

Coresquisite: MA 111

Required of freshmen in all Textile curricula

This course is an introduction to textile manufacturing. It covers briefly the processes common to yarn manufacturing, and in a broader sense the types of mechanisms common to all textile machines, calculations involving speeds, productions and twists that are associated with these mechanisms, and the theory and application of the cotton numbering system. The lecture and recitation work are supplemented by laboratory application, which covers in detail the work of the classroom.

One 1-hour lecture and one 2-hour laboratory period per week.

Staff

TX 201 YARN MANUFACTURE II

4 (3-2) f s

Prerequisite: TX 101

Required of sophomores in Textiles

Combined lecture and laboratory instruction on the functions involved in processing textile fibers on the cotton system from the raw product to the spun yarn. Particular emphasis is given to a study of the functions of opening, cleaning, doubling, evening and drafting. Three 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Pardue, Stuckey, Wiggins

TX 301 YARN MANUFACTURE III

4 (3-2) f s

Prerequisites: TX 201, TX 281; PY 212

Required of juniors in Textiles

A continuation of Yarn Manufacture II on the functions of twisting and packaging of cotton rovings and yarns, with laboratory work supplementing lecture instruction. Also included is a study of textile machines as producing units—such machines as combers, roving frames, twisters and the like.

Three 1-hour lectures and one 2-hour laboratory period per week.

Mr. Porter

TX 321 TEXTILE TESTING I

3 (1-4) f

Prerequisite: PY 212

Required of juniors in Textiles Chemistry

Physical testing and evaluation of yarns and fabrics with emphasis on techniques, instruments and methods for quality measurements of finished products; also collection and interpretation of data and reporting of results.

One 1-hour lecture and two 2-hour laboratory periods per week.

Mr. Hamby

TX 323 TEXTILE TESTING II

3 (2-2) f s

Prerequisite: TX 281; PY 212

Required of juniors in Textiles

Quality control methods for textile processing, with emphasis on the measurement by laboratory instruments and techniques, and including a study of the mechanical and natural influences involved.

Two 1-hour lectures and one 2-hour laboratory periods per week.

Messrs. Hamby, Stuckey; Mrs. Gast

TX 401 YARN MANUFACTURE IV

4 (3-2) f s

Prerequisite: TX 301

Required of seniors in Yarn Manufacturing and General Textiles Options

Elective for others

Refinements on yarn production, such as detailed study of carding; production levels; comber types, settings and quality aspects; modern drafting assemblies. Review of all yarn mill calculations. Production of novelty yarn, and special yarns such as voile, crepe. Manufacturing of thread yarn. Special techniques and problems; types of winders; large package production, types of travelers and rings; operation schedules. Lab project in small groups. (Piece rates.)

Three 1-hour lectures and one 2-hour laboratory period per week.

Mr. Stuckey

TX 402 MILL TECHNOLOGY

3 (3-0) s

Prerequisite: TX 301

Required of seniors in Yarn Manufacturing and Synthetics Options

Elective for others

Mill Layout: layout of textile mill of cotton or synthetics type. Types of machines, numbers and balance of equipment. Floor layout plans and process flow, speeds, productions, help layout, power and investment.

Three 1-hour lectures per week.

Messrs. Grover, Pardue, Stuckey

TX 411 WOOL MANUFACTURE I

3 (2-2) f s

Prerequisite: TX 301

Required of seniors in Yarn Manufacturing and General Textiles Options

Elective for others

Raw materials used in wool and worsted trades; classification, structure and characteristics of fibers, grading, sorting and mixing. Reclaimed wool and secondary raw materials.

Lectures are supplemented by laboratory applications.

Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Pardue

TX 424 DEVELOPMENT PROJECT

2 (0-4) s

Prerequisite: TX 323

Required of seniors in Quality Control Option

Studies are conducted independently on assigned problems, and seminars are held on applications and administration of testing, quality control and development. Studies and discussion of budgeting and evaluation of priority and progress. Current technical developments are discussed. Results of project to be written in form of a technical report from a control and development laboratory.

One 4-hour laboratory period per week.

Staff

TX 431 SYNTHETICS I

2 (2-0) f s

Prerequisite: TX 281

Required of seniors in General Textiles, Weaving and Designing and Yarn Manufacturing Options

A general course including; textile processing of continuous filament synthetic yarns in the yarn producing plants; preparation of yarns for weaving and knitting including crepe, voile and hosiery yarns; the application of synthetic yarns for use as industrial yarns and fabrics; also, calculation involving the denier system and production calculations.

Two 1-hour lectures per week.

Mr. Wiggins

TX 433 SYNTHETICS II

4 (3-2) f

Prerequisite: TX 281 and Senior standing

Required of seniors in Synthetics Option

An advanced study of the physical problems and the relations of physical properties to the processing characteristics and end product performances of the synthetic fibers. A study of the influence of twist on physical properties of filament yarns; comprehensive studies of the processing of sized and unsized filament yarns as encountered in the throwing industry and in preparation for knitting and weaving. A study of the industrial uses of synthetic fibers and the requirements of such uses.

Three 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Hamby, Wiggins

TEXTILES

TX 435 SYNTHETIC FIBER PROCESSING

4 (3-2) f s

Prerequisite: TX 301

Required of seniors in Yarn Manufacturing and Synthetic Options

Elective for others

Studies of the contributions of individual fibers to the entire blend covering both the man-made as well as natural fibers. Processing of man-made fibers into spun yarn and fabric, particularly on the cotton system. The processing of man-made fibers by new methods, such as by direct spinning and the Pacific Converter. Studies of the modification of machines for processing synthetic fibers alone or in blend with other fibers.

Three 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Grover, Hamby, Pardue

KNITTING TECHNOLOGY — — — — —

TX 241 KNITTING I

3 (2-2) f s

Required of sophomores in Textiles

Selection and preparation of knitting yarns, knitting mechanisms, structure of selected types of spring and latch needle fabrics; operation and adjustment of the basic types of knitting machines.

Two 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Lewis, Middleton

TX 341 HOSIERY MANUFACTURE

2 (2-0) f s

Prerequisite: TX 241

Required of juniors in Textiles

A study of advanced types of circular knitting machines and the problems involved in the manufacture of fine hosiery. Hosiery design and analysis.

Two 1-hour lectures per week.

Mr. Middleton

TX 343 KNITTED FABRIC DESIGN AND ANALYSIS

2 (0-4) f

Prerequisite: TX 341

Required of seniors in Knitting Technology Option

Elective for others

Stitch formation for the more intricate knitted fabrics; control mechanisms for pattern work; designing methods; analysis of fabrics for reproduction and costing; color in knit goods.

Two 2-hour laboratory periods per week.

Mr. Lewis

TX 441 FLAT KNITTING

3 (2-2) f

Prerequisite: TX 341

Required of seniors in Knitting Technology Option

Elective for others

A study of the leading types of flat knitting machines including warp knitting machines, design possibilities and fabric adaptability.

Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Shinn

TX 443 KNITTING MECHANICS

3 (2-2) f

Prerequisite: TX 341

Required of seniors in Knitting Technology Option

Elective for others

Mathematics and mechanics of flat and rib knitting. Interrelation of yarn number, yarn diameter, gauge, cut, stitch, length, fabric structure and weight; proportions of yarns in multiple-thread work; production problems, etc.

Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Shinn

TX 444 GARMENT MANUFACTURE

3 (2-2) s

Prerequisite: TX 341

Required of seniors in Knitting Technology Option

Elective for others

A study of circular latch needle and spring needle machines for knit fabric production styling, cutting and seaming of the basic garment types for underwear and outerwear; standard seam types; high-speed sewing machines.

Two 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Lewis, Shinn

TX 445 FULL-FASHIONED HOSIERY MANUFACTURE

2 (2-0) s

TX 447, 448 KNITTING LABORATORY II

2 (0-4) f s

Prerequisite: TX 341

Required of seniors in Knitting Technology Option

Elective for others

Mechanics of the full-fashioned hosiery machine including practical training in its adjustment and operation. Attention is given to yarn preparation, knitting, inspection, finishing and packaging hosiery.

One 4-hour laboratory period per week each semester. Two 1-hour lectures per week in spring semester.

Mr. Shinn

TX 449 TRICOT KNITTING

3 (2-2) s

Prerequisite: TX 341

Required of seniors in Knitting Technology Option

Elective for others

A study of basic types of tricot knitting machines with emphasis on mechanisms and fabrics. Attention is given to warp preparation methods applicable to the tricot machine, the characteristics of yarn made from natural and synthetic fibers as they affect processing into warp knitted fabrics, machine settings for proper qualities and ratios; economics of warp knitting, and end uses. Attention is given to fabric design and analysis.

Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Shinn

FABRIC DEVELOPMENT

TX 151 FABRIC PRINCIPLES

2 (1-2) f s

Required of freshmen in all Textile curricula

An introduction to the study of fabric development and construction. The methods of preparing yarn for weaving, the weaving of fabrics, and the calculations required to produce a fabric are included. Lectures are supplemented by laboratory exercises in operation of the machinery.

One 1-hour lecture and one 2-hour laboratory period per week.

Mr. Whittier and Staff

TX 251 CAM WEAVING

3 (1-4) f s

Prerequisite: TX 151

Required of sophomores in Textiles

A study of the functions, operation and interrelationship of cam loom mechanisms and a study of preparing yarns for weaving, including systems of creeling, beaming, slashing, drawing-in, tying-in and filling preparation.

One 1-hour lecture and two 2-hour laboratory periods per week.

Messrs. Berry, Klibbe, Moser

TX 261 FABRIC STRUCTURE

3 (2-2) f s

Prerequisite: TX 151

Required of sophomores in Textiles and Textile Chemistry

A study of the fundamental principles of fabric construction and weave formation of selected staple fabrics. Laboratory instruction is given in physical analysis and design techniques essential to the development of technical specifications for the production of woven fabrics.

Two 1-hour lectures and one 2-hour laboratory.

Messrs. Berry, Gaither, Klibbe

TX 271 UPHOLSTERY FABRICS

2 (2-0) f

Required of sophomores in Furniture Manufacturing

A study of the basic principles of textile manufacturing and structure of woven fabrics, identification of classic decorative fabrics used for upholstered furniture coverings, with emphasis on nomenclature and physical properties and textile trade customs.

Two 1-hour lectures.

Messrs. Gaither, Whittier

TX 351 DOBBY WEAVING

3 (2-2) f s

Prerequisite: TX 251; PY 212

Required of juniors in Textiles

A continuation of instruction in the operational functions of loom mechanisms, involving certain motions not covered in cam weaving. This includes a description of different type looms, drop box motions, single and double index dobbies, and transfer motions. The causes and remedies of fabric defects, the building of chains, the proper settings, and the operation of dobby and drop box looms are taught by practical application in the laboratory classes.

Two 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Berry, Gaither, Moser

TX 361 DOBBY DESIGN

3 (1-4) f s

Prerequisite: TX 261

Required of juniors in Textiles

A study of classic dobby weave formations such as spot designs, fancy twills, honeycomb, extra warp and filling figure; together with the pattern layout, design system and analysis of the physical structure of select staple and styled dobby woven fabrics.

One 1-hour lecture and two 2-hour laboratory periods per week.

Messrs. Gaither, Klibbe, Moser

TX 451 WEAVING LABORATORY

1 (0-2) f s

Prerequisite: TX 351

Required of seniors in General Textiles and Weaving and Designing Options

Elective for others

Operation and fixing of dobby, pick and pick and jacquard looms; preparation of warps to weave rayon, wool and fine cotton fabrics; building of box, dobby and multiplier chains; and project involving the preparation and weaving of an approved fabric design.

One 2-hour laboratory period per week.

Messrs. Berry, Moser

TEXTILES

TX 452 WEAVING TECHNOLOGY

2 (0-4) s

Prerequisite: TX 451

Required of seniors in Weaving and Designing Option

Elective for others

Continuation of TX 451 with special emphasis upon making original designs for dobby fabrics, preparing the warps and weaving the fabrics.

Two 2-hour laboratory periods per week.

Messrs. Berry, Moser

TX 461 DESIGN IV

3 (2-2) f

Prerequisites: TX 361

Required of seniors in General Textiles and Weaving and Designing Options

Elective for others

A continuation of DOBBY DESIGN TX 361, with emphasis on the design, construction and weave of specialized fabrics. A review of designing principles and their relation to double woven cloths, corduroys, lenos, jacquards, etc. is included in the lectures and in the laboratory period, which is devoted to analysis.

Two 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Berry, Gaither, Moser

TX 471 DEVELOPMENT OF WOVEN DESIGN

2 (2-0) f s

Prerequisite: TX 361

Elective

A study of the factors which determine the quality, style and color of fabrics, including the design specifications and production calculations necessary for the translation of design ideas into woven textiles.

Two 1-hour lectures per week.

Mr. Gaither

TX 472 FABRIC ANALYTICS

2 (2-0) f s

Prerequisite: TX 361

Required of seniors in General Textiles and Weaving and Designing Options

Elective for others

A supplementary course in fabric structure to demonstrate how fabrics can be designed to meet specific requirements for utility and aesthetic value. The methods and calculations involved in predetermining weight, cost, texture, strength, extensibility, thickness and other important properties of fabrics are explained, using actual cases of consumer problems as examples.

Mr. Whittier

TX 473 FABRIC CHARACTERISTICS

2 (1-2) f s

Prerequisite: TX 361

Elective

A study of the identification, classification and utilization of woven fabrics and how these are affected by various properties such as geometry, weave and finish. Actual inspection of a wide range of fabrics with emphasis on a study of defects and their influence on quality will be included in the laboratory work.

One 1-hour lecture and one 2-hour laboratory period per week.

Mr. Whittier

TX 476 SYNTHETICS III

3 (2-2) s

Prerequisites: TX 351, 361

Required of seniors in Synthetics Option

Advanced study of the development and construction of fabrics made with synthetic yarns. The course includes lectures on the special problems encountered in the design, warp and filling preparation and weaving of fabrics made with filament yarns. The methods used by industry to overcome these difficulties are demonstrated in the laboratory sessions.

Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Moser

TEXTILE CHEMISTRY

TC 201 TEXTILE CHEMISTRY I

2 (2-0) f s

Prerequisite: CH 103

Required of sophomores in Textiles

A comprehensive course designed to familiarize the student with the chemical properties of all natural and synthetic fibers, and with their expected behavior under the various conditions to which they may be exposed. A brief survey of those parts of organic chemistry applicable to textile materials is included.

Mr. Rutherford

TC 301, 302 TEXTILE CHEMISTRY II

3 (2-2) f s

Prerequisite: TC 201

Required of seniors in Textiles

A comprehensive course covering: a brief outline of the methods of scouring, bleaching, dyeing, printing and finishing textile materials; a study of the machinery involved in the wet handling of textiles.

Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Hayes

TC 303, 304 TEXTILE CHEMISTRY III

4 (2-4) f s

Prerequisite: Concurrent enrollment in CH 421, 422

Required of juniors in Textile Chemistry

A study of the action of chemicals on fibers; methods and chemistry of scouring, bleaching and mercerization; preparation of typical dyestuffs and their application to fibers.

Two 1-hour lectures and one 4-hour laboratory period per week.

Mr. Hayes

TC 403, 404 TEXTILE CHEMISTRY IV

4 (2-4) f s

Prerequisite: TC 304

Required of seniors in Textile Chemistry

A continuation of TC 303 and 304 with special emphasis on modern dyeing methods. Laboratory exercises and use of pilot and mill scale equipment of many types in dyeing all important fibers and fiber mixtures. Selected topics of importance to the textile chemist with special attention to current technological advances in the field. Visits to mills selected to cover a wide variety of processing techniques.

Two 1-hour lectures and one 4-hour laboratory period per week.

Mr. Campbell

TC 411 TEXTILE CHEMICAL ANALYSIS I

3 (1-4) arrange

Prerequisite: CH 211

Elective for students in Textile Chemistry

Analysis and evaluation of textile chemicals and related materials such as water, soap, wetting agents, synthetic detergents, bleaching and stripping agents and finishing compounds. Identification and quantitative determination of materials employed in several categories of textile wet processing such as sizes, surface-active agents, dyestuffs and finishes.

One 1-hour lecture and one 4-hour laboratory period per week.

Messrs. Campbell, Rutherford

TC 412 TEXTILE CHEMICAL ANALYSIS II

3 (1-4) s

Prerequisites: CH 211 and TC 304

Elective for students in Textile Chemistry

Analysis of textile materials involving specialized instruments and techniques such as spectrophotometry, pH measurements, electrometric titration, viscometry, etc.

One 1-hour lecture and two 2-hour laboratory periods per week.

Messrs. Campbell, Rutherford

TC 421 FABRIC FINISHING I

2 (2-0) f s

Prerequisite: TC 201

Required of seniors in Synthetics Option. Elective for others, except students in Textile Chemistry

A general course in fabric finishing designed for students not majoring in Textile Chemistry. Emphasis placed on finishes used on garment-type fabrics, including stabilization finishes, water repellency, crease resistance, moth and mildew proofing, fire-proofing, etc. Emphasis on chemistry of finishes varied to fit requirements of students.

Two 1-hour lectures per week.

Mr. Hayes

TC 423 FABRIC FINISHING II

3 (1-4) f

Prerequisite: TC 304

Required of seniors in Textile Chemistry

A study of the compounds used in the finishing of fabrics, and of the methods used in laboratory development and plant application of finishing compounds. Studies of the methods of evaluation of finishes are included in the laboratory work.

One 1-hour lecture and one 4-hour laboratory period per week.

Mr. Rutherford

TC 431 TEXTILE PRINTING

3 (1-4) s

Prerequisite: TC 304

Required of students in Textile Chemistry

Fundamentals of textile printing with major emphasis on modern roller printing methods; design of printing machines, preparation of cloth for printing, formulation and properties of printing pastes, application techniques for all important types of dyestuffs, styles of printing, and aging and aftertreating procedures.

One 1-hour lecture and one 4-hour laboratory period per week.

Mr. Campbell

GENERAL TEXTILE COURSES

TX 281 FIBER QUALITY

3 (2-2) f s

Required of sophomores in Textiles

History, development, production, ginning and handling of cotton. World crops; marketing methods; classification; relation of grade and staple to the value of cotton. Measurement of the physical properties of cotton fibers and their relation to spinning quality; relation of grade and staple to waste, spinning behavior and yarn quality. Selection of cotton for different types of yarns and fabrics.

An introduction to synthetic fiber knowledge, including the history, development, and classification of all synthetic fibers. A study of the manufacturing processes of synthetic yarns. A description of the chemical and physical properties of the fibers and yarns and how these affect the selection of synthetic yarns and fabrics by consumers.

Two 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Hamby, Stuckey, Wiggins

TEXTILES

TX 284 TEXTILE PROCESSING

Prerequisites: TX 101, 151

3 (2-2) s

Required of sophomores in Textile Chemistry

A general textile manufacturing course covering the production of yarns and fabrics. The fundamentals of yarn manufacture, including opening, picking, cleaning, carding and spinning are covered. Special emphasis is put on creeling, beaming and slashing of warps for weaving, and the preparation of warps for knitting. Fundamental principles of textile design, weaving and knitting are covered.

Two 1-hour lectures and one 2-hour laboratory period per week.

Messrs. Smith, Woodbury

TX 425 TEXTILE MICROSCOPY

Prerequisite: TX 481

1 (0-2) f s

Required of all Textile and Textile Chemistry students

Experiments, lectures and demonstrations in application of microscopy to textiles. Experiments include fiber study by both longitudinal and cross-sectional section, cotton maturity, starch studies, micrometry of fibers and others. Fundamentals of polarizing, phase contrasts and electron microscopes are covered. Demonstration of euscope, projection microscope, photomicrographic cameras and other devices.

One 2-hour laboratory period per week.

Messrs. King, Stuckey

TX 483 TEXTILE COST METHODS

Prerequisites: TX 301, 361

2 (2-0) f s

Required of seniors in Textiles except those in Management Option

A survey of cost methods applicable to textile mills with emphasis on calculations, the preparation of cost reports, and their use in cost control.

Two 1-hour lectures per week.

Messrs. Middleton, Shinn

TX 484 MILL ORGANIZATION

Prerequisites: TX 301 and Senior standing

3 (3-0) s

Required of seniors in Textiles

Studies of organizations of textile mills from personnel as well as functional viewpoints and of the planning and scheduling of manufacturing contracts through opening and weaving mills. Analysis of manufacturing organizations based on processes and equipment.

Three 1-hour lectures per week.

Mr. Grover

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

FIBER AND YARN TECHNOLOGY

TX 501 YARN TECHNOLOGY SEMINAR

Prerequisite: TX 401 and consent of instructor

2 (2-0) s

Elective

Lecture and discussion periods are designed for students who are particularly interested in the yarn manufacturing aspects of the textile industry. Subject matter will include such various aspects as training methods, safety programs, modern mill design, specialized techniques in setting rates, employee relations and developments that arise from technical meetings.

Two 1-hour lectures per week.

Messrs. Grover, Hamby

TX 521 TESTING AND QUALITY CONTROL

Prerequisite: TX 323 or TX 321

4 (2-4) f

Required of students in Quality Control Option. Elective for others

Testing of natural and man-made fibers and of yarns and fabrics, with emphasis on advanced testing techniques. Consideration of quality control programs, including "defect preventive" methods, pin-pointing of troubles and the relationship between the quality control department and operating divisions. Technical report writing, literature research and study of military specifications and U. S. Government standards as CCC-T-191b. Attendance at technical meetings such as the Fiber Society, American Society for Testing Materials, American Society for Quality Control is encouraged.

Two 1-hour lectures and one 4-hour laboratory period per week.

Messrs. Hamby, Stuckey

TX 522 TEXTILE TESTING III

Prerequisite: TX 521, or graduate standing with approval of instructor

4 (2-4) s

Required of students in Quality Control Option. Elective for others

Mechanics of textile fabrics, with emphasis on the application of engineering criteria to laboratory evaluation of natural and man-made fibrous materials, stress-strain relationships, modifications due to impact, torsional properties, thermoplastic material degradation, permeability to gases and liquids, theory of induced wear with influence of abrasion. Influence on fabric properties resulting from blending of fibers, and modification of properties by varying fiber distribution. Specialized techniques of controlling attributes and variables of fabric quality.

Two 1-hour lectures and one 4-hour laboratory period per week.

Messrs. Hamby, Stuckey

TX 525 ADVANCED TEXTILE MICROSCOPY

2 (arranged) f s

Prerequisite: TX 425

Elective

Experiments, lectures and demonstrations in more advanced techniques of textile microscopy. Detailed studies of structures of fibers covered in lecture series, supplemented by experiments on lecture topics. Detailed study of all types of microscopes and their uses in textiles. Preparation of slides for photography. Uses of photomicro-graphic equipment. Lectures and laboratories arranged.

Mr. Stuckey

TX 551 COMPLEX WOVEN TEXTILE STRUCTURES

2 (2-0) s

Prerequisite: TX 451, TX 461

Elective

Consideration of machine-design factors and operational problems and factors peculiar to the manufacture of selected complex fabrics. Unique economic problems of fabric production.

Two 1-hour lectures per week.

Mr. Berry

TX 561 SPECIAL WEAVE FORMATIONS

2 (2-0) s

Prerequisite: TX 461

Required of seniors in Weaving and Designing Option. Elective for others

A detailed study of the creation of weave formations which require specially designed let-off motions, take-up motions, doup heddles, swinging reeds, indicator chains, etc. Such fabrics as terry cloth, marquisette, leno stripes, seersuckers and mission net are included. Two 1-hour lectures per week.

Mr. Berry

TX 562 JACQUARD DESIGN AND WEAVING

3 (2-2) s

Prerequisite: TX 361

Required of seniors in Weaving and Designing Option. Elective for others

The application of punched card techniques to the design and manufacture of certain fabrics having intricate decorative patterns and special surface characteristics.

Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Berry

TEXTILE CHEMISTRY

TC 501 SEMINAR IN TEXTILE CHEMISTRY

2 (arranged) s

Prerequisite: TC 403

Elective for Textile Chemistry students

The course is designed to familiarize the student with the principal sources of textile chemical literature and to emphasize the importance of keeping abreast of developments in the field of textile chemistry. Particular attention is paid to the fundamentals of technical writing. Reports.

Lectures arranged.

Mr. Campbell, Staff

TC 511, 512 CHEMISTRY OF FIBERS

2 (2-0) f s

Prerequisite: CH 422

Required of seniors in Textile Chemistry

A lecture course emphasizing: the theory of fiber structure; the relationship between the chemical structure and physical properties of natural and synthetic fibers; the nature of the chemical reactions which produce degradation of fibers; the production of synthetic fibers.

Two 1-hour lectures per week.

Mr. Rutherford

TC 521 TEXTILE CHEMICAL ANALYSIS III

3 (arranged) f s

Prerequisite: TC 421, or permission of instructor

Elective for all Textile students except those majoring in Textile Chemistry

The work includes the chemical identification of fibers, the qualitative and quantitative analysis of fiber blends by chemical means and the evaluation techniques for dyed and finished materials.

Messrs. Campbell, Rutherford

GENERAL TEXTILE COURSE

TX 581 INSTRUMENTATION AND CONTROL

3 (2-2) f s

Prerequisite: PY 212

Required of all seniors in Textiles and Textile Chemistry

A lecture series with coordinated laboratory exercises designed to familiarize the student with the theory and application of instruments and control apparatus that he will find in the modern textile plant.

The studies cover the measurement and control of temperature, humidity, regain, chemical processes, physical finishing processes, time and temperature cycles, yarn and cloth tension, speed and fluid pressure.

Two 1-hour lectures and one 2-hour laboratory period per week.

Mr. Asbill

TEXTILES

COURSES FOR GRADUATES ONLY

TX 601, 602 YARN MANUFACTURE

3 f s

Prerequisite: TX 401 or equivalent

A study of breaking strength and related properties of cotton yarns made under various atmospheric conditions; comparison of yarns produced from long and short-staple cotton with regular and special carding processes; efficiency of various roller covering methods of preparation; comparison of regular and long-draft spinning.

Messrs. Grover, Hamby

TX 621 TEXTILE TESTING IV

2 f s

Prerequisite: TX 522 or equivalent

Design of textile laboratories, including conditioning equipment and instruments required for specific needs; performance of tests and analysis of data on industrial problems; specialized physical tests; inter-laboratory tests and analysis; study of A.S.T.M. specifications and work on task groups for the A.S.T.M. Society.

Mr. Hamby

TX 631 SYNTHETICS IV

2 s

Prerequisite: TX 433 or equivalent

Setting up of an assigned project on problems peculiar to the processing of continuous filament yarns, particularly in the initial preparatory stages of processing, and including sizing, twisting, winding and associated problems.

Messrs. Grover, Hamby

TX 641, 642 ADVANCED KNITTING SYSTEMS AND MECHANISMS

3 f s

Prerequisite: TX 441 or equivalent

A critical study of inventions which have contributed to the development of the modern knitting industry; knitting needles and their adaption for specific uses; means for mounting them for individual and en masse operation; construction and functioning of cooperating elements including sliders, jacks, sinkers, dividers, pressing elements, narrowing and tensioning and draw-off motions, re-feeding mechanisms, timing and control organs and cams.

Use will be made of patent literature such as U. S. Patents 2,413,601 and 2,431,160, Bitzer, which represent important developments in the full-fashioned hosiery industry.

Three 1-hour lectures per week.

Mr. Shinn

TX 643, 644 KNITTING RESEARCH

3 f s

Prerequisites: Graduate standing and 8 credits in Knitting

Problems of specific interest to the knitting industry will be assigned for study and investigation. The use of experimental methods will be emphasized. Attention will be given to the preparation of reports for publication.

Graduate Staff

TX 651, 652 FABRIC DEVELOPMENT AND CONSTRUCTION

3 f s

Prerequisite: B.S. degree in Textiles (Weaving and Designing Option) or equivalent

Application of advanced technology to the development and construction of woven fabrics.

Mr. Whittier

TX 681, 682 TEXTILE RESEARCH

Credits by arrangement f s

Problems of specific interest to the textile industry will be assigned for study and investigation. The use of experimental methods will be emphasized. Attention will be given to the preparation of reports for publication. The master's thesis may be based upon the data obtained.

Graduate Staff

TX 683, 684 SEMINAR

1 f s

Discussion of scientific articles of interest to textile industry; review and discussion of student papers and research problems.

Graduate Staff

TC 605 PHYSICAL CHEMISTRY OF DYEING

3 (3-0) f

Prerequisites: CH 422, PY 212, MA 212 or graduate standing

Dyeing is treated as a physio-chemical process emphasizing equilibria, kinetics and practical aspects of research into dyeing processes.

Mr. Cates

TC 606 CHEMICAL OF FIBER-FORMING HIGH POLYMERIC SYSTEMS

3 (3-0) s

Prerequisites: CH 422, PY 212, MA 212 or graduate study

The course will embody studies of the mechanism and kinetics of polymerization, the properties and behavior of high polymer solutions, the mechanical behavior of natural and synthetic fibrous material as related to the molecular structures.

Mr. Cates

ZOOLOGY

COURSES FOR UNDERGRADUATES

ZO 101 GENERAL ZOOLOGY**3 (2-2) f s**

Animals with special reference to the morphology and physiology of vertebrates, including intensive laboratory study of the mammal with lecture and laboratory work closely integrated and applied to human life.

Staff

ZO 102 GENERAL ZOOLOGY**3 (2-2) f s**

Animals with special reference to economic and ecological consideration designed to give the student a general understanding of animal life and its importance in human affairs.

Staff

ZO 212 HUMAN ANATOMY**3 (2-2) f**

Prerequisite: ZO 101

A study of human anatomy with major emphasis on the structure and function of the muscular, skeletal, circulatory and nervous systems. Required of majors in recreation.

Mr. Miller

ZO 213 HUMAN PHYSIOLOGY**3 (3-0) s**

Prerequisite: ZO 101

An elementary survey of human physiology. The central theme is the changes in the human body accompanying increased physical activity. The nature and mechanisms of these changes.

Mr. Miller

ZO 223 COMPARATIVE ANATOMY**4 (2-4) f**

Prerequisites: ZO 101, 102

A comparative morphology of vertebrates demonstrating the interrelationships of the organ systems of the various groups.

Mr. Harkema

ZO 252 ORNITHOLOGY**3 (2-3) s**

Prerequisite: ZO 101

The biology, natural history, and classification of North American birds, with special reference to those of North Carolina and the eastern United States. Field trips for the study and identification of local forms.

Mr. Quay

ZO 301 ANIMAL PHYSIOLOGY**3 (2-3) f s**

Prerequisites: ZO 101; PY 211; CH 101 or 201, and 203

Physiology of vertebrates with particular reference to man and the lower animals.

Mr. Santolucito

ZO 312 PRINCIPLES OF GAME MANAGEMENT**3 (3-0) f**

Prerequisite: ZO 102; Elective for juniors and seniors not majoring in Wildlife

This course is intended to provide the student with a basic understanding of the major principles of wildlife management. It is designed especially for those individuals who anticipate entering the fields of agriculture, forestry, agricultural extension or rural and industrial recreation.

Mr. Barkalow

ZO 315 ANIMAL PARASITOLOGY**3 (2-3) s**

Prerequisites: ZO 101, 102

This course is designed to give students a knowledge and appreciation of the parasitic habit. The biology, life history, pathology and control of the common parasites of domestic animals and poultry are covered.

Mr. Harkema

ZO 321 WILDLIFE AND NATURAL RESOURCE CONSERVATION**3 (3-0) s**

Prerequisite: Sophomore standing in any school

The importance of natural resources to man and the part they play in national and international affairs; the principles which underlie their conservation and the impact of over-exploitation on primitive and civilized societies. Emphasis is placed on the renewable resources, particularly wildlife.

Mr. Barkalow

ZO 332 FUR RESOURCES**3 (1-4) f**

Prerequisite: ZO 101

Life history and management of the important fur-bearing animals; skinning, drying, marketing pelts, fur farming.

Mr. Barkalow

ZOOLOGY

ZO 452* ANIMAL MICROTÉCHNIQUE

3 (1-5) s

Prerequisites: ZO 101, 102, and CH 203

The theory and practice of preparing temporary and permanent histological mounts for microscopic study.

Mr. Harkema

COURSES FOR GRADUATES AND ADVANCED UNDERGRADUATES

ZO 501 ADVANCED ORNITHOLOGY**

3 (2-3) f

Prerequisite: ZO 252, and approval of the instructor

Upland game birds, rails and waterfowl—life histories, taxonomic relations, distribution, habitat and territory, display and behavior, instinct and intelligence food habits, census methods, populations and factors affecting abundance, management problems and procedures, recent investigations, current literature.

Mr. Quay

ZO 513* ADVANCED ANIMAL PHYSIOLOGY I**

3 (3-0) f

Prerequisite: ZO 301

Fundamentals of animal physiology from an advanced point of view. Lectures, discussions, outside reading, written and oral reports. Topics in the field of animal physiology will be selected for vigorous and detailed consideration in lectures and collateral reading. Each student will, in addition, prepare a term report, and his work will be supervised and evaluated during the preparation as well as at the end of the report. Selection of a few topics for study will be determined by the interests of the students and by their needs as may be expressed by the supervisor of their major work.

Mr. Santolucito

* Offered in even years. Will be offered Spring 1960.

** Offered in odd years. Will be offered in Fall 1959.

*** Offered in even years. Will be offered in Fall 1960.

ZO 521 FISHERY BIOLOGY

3 (1-6) f

Prerequisite: ZO 101, 102, and approval of the instructor

Lectures, discussions, reports, field trips and laboratories. Methods and principles of fish management. Qualitative and quantitative studies of the various factors influencing the growth and abundance of game fishes. Life history studies of freshwater and marine sport fishes. Theories of fishery science. Application of biometrical methods.

Mr. Hassler

ZO 522 ANIMAL ECOLOGY

3 (3-0) s

Prerequisites: ZO 101, 102

The general principles of the interrelations between animals and their environments—land, fresh water, marine.

Mr. Quay

ZO 532 (GN 532)* BIOLOGICAL EFFECTS OF RADIATIONS

3 (3-0) s

Prerequisites: ZO 101, and approval of the instructor

Recommended Correlatives: GN 411, ZO 301, and BO 421

Qualitative and quantitative effects of radiations (other than the visible spectrum) on biological systems, to include both morphological and physiological aspects in a consideration of genetics, cytology, histology and morphogenesis.

Mr. Grosch

ZO 541 COLD-BLOODED VERTEBRATES (ICHTHYOLOGY)**

3 (1-4) s

Prerequisites: ZO 101 and 102

The classification and ecology of selected groups of fishes. Lectures, laboratories and field trips dealing with the systematic positions, life histories, interrelationships and distribution of the particular groups of fishes selected in accordance with the needs and interests of the class.

Mr. Brandt

ZO 542* COLD-BLOODED VERTEBRATES (HERPETOLOGY)

3 (1-4) s

Prerequisites: ZO 101 and 102

The classification and ecology of selected groups of amphibians and reptiles. Lectures, laboratories and field trips dealing with the systematic positions, life histories, interrelationships and distribution of the particular groups of amphibians and reptiles selected in accordance with the needs and interests of the class.

Mr. Brandt

ZO 544 MAMMALOLOGY

3 (1-4) f

Prerequisites: ZO 101, 102 and approval of the instructor

The classification and ecology of the major groups of mammals with particular emphasis on the orders native to the Southeastern United States.

Mr. Barkalow

ZO 545* HISTOLOGY**

4 (2-4) f

Prerequisites: ZO 101, 102

The microscopic anatomy of animal tissues.

Mr. Harkema

ZO 551, 552 WILDLIFE MANAGEMENT

3 (2-3) f s

Prerequisites: ZO 252 and BO 441, and approval of the instructor

The basic principles of wildlife management and their application are studied in the field and laboratory. The course is designed primarily for those seniors majoring in the field of wildlife management.

Mr. Barkalow

ZO 561 ANIMAL EMBRYOLOGY**

4 (2-4) f

Prerequisites: ZO 101, 102

The study of fundamental principles which apply in the achievement of complex animal structure, including both invertebrate and vertebrate materials. Correlative laboratory study to provide training in the basic disciplines and techniques. This course is intended for advanced students in entomology, animal industry, poultry science and zoology.

Mr. Harkema

ZO 571 ADVANCED WILDLIFE MANAGEMENT, SPECIAL STUDIES

**Credits by
Arrangement**

Prerequisites: ZO 551 or 312, and approval of the instructor

A directed individual investigation of a particular problem, accompanied by an advanced survey of pertinent literature. A maximum of three credits allowed toward the bachelor's degree, four toward the master's degree and six toward the doctorate.

Graduate Staff

* Offered in even years. Will be offered Spring 1960.

** Offered in odd years. Will be offered Spring 1959.

*** Offered in even years. Will be offered Fall 1958.

ZO 581 FOOD HABITS PROBLEMS

3 (0-9) f s

Prerequisite: ZO 102, BO 102

Selected problems dealing with the foods and feeding habits of one species of wild animal or a group of similar animals.

Graduate Staff

ZO 591* PARASITOLOGY I

4 (2-4) f

Prerequisites: ZO 101, 102, and 223

The study of the morphology, biology and control of the parasitic protozoa and helminths of man, domestic and wild animals.

Mr. Harkema

ZO 592 (ENT 582) PARASITOLOGY II MEDICAL ENTOMOLOGY

3 (2-3) s

Prerequisite: ENT 301

A study of the morphology, biology and control of the parasitic arthropods of man, domestic and wild animals.

Mr. Harkema

COURSES FOR GRADUATES ONLY

ZO 603 ADVANCED PARASITOLOGY

3 (2-3) s

Prerequisites: ZO 591, 592

The study of the theoretical and practical aspects of parasitism; taxonomy, physiology and immunology of animal parasites.

Mr. Harkema

ZO 611 ANIMAL ECOLOGY, SPECIAL STUDIES

Credits by Arrangement

Prerequisites: ZO 522, and approval of the instructor

Directed individual investigation of a particular problem, accompanied by an advanced survey of literature. A maximum of three credits allowed toward the master's degree and six toward the doctorate.

Graduate Staff

ZO 614 ADVANCED ANIMAL PHYSIOLOGY II

3 (3-0) f

Prerequisite: ZO 301, and approval of the instructor

Selected fundamental principles in physiology will be studied and interpreted for their relation to the vertebrates. Lectures and critical reports to promote acquaintance with general literature and recent advances. Lectures, discussions, written and oral reports.

Mr. Santolurito

ZOOLOGY

ZO 622 SEMINAR

1 (1-0) f s

The presentation and defense of current literature papers dealing either with the findings of original research or with fundamental biological concepts.

Graduate Staff

ZO 627 ZOOGEOGRAPHY**

3 (3-0) f s

Prerequisite: ZO 522, and approval of the instructor

The geographic distribution of animals—land, fresh-water, marine.

Mr. Quay

ZO 641 RESEARCH IN ZOOLOGY

Credits by Arrangement

Prerequisites: Twelve semester credits in Zoology, and approval of the instructor

Problems in development, life history, morphology, physiology, ecology, game management, taxonomy or parasitology. A maximum of six credits is allowed toward the master's degree but any number toward the doctorate.

Graduate Staff

* Offered in odd years. Will be given Fall 1959.

** Offered in even years. Will be given Fall 1958.

We develop new ideas and techniques. But our mission is more than that. We, also, develop men who convert the techniques into finer products and healthier crops—for North Carolina State College is an investment in the economic future of North Carolina.

John William Harrelson
Chancellor, 1934-1953





HOLLADAY HALL

V. ADMINISTRATION AND FACULTY OF N. C. STATE

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THE ALUMNI ASSOCIATION — — — — —

H. W. Taylor, *Director of Alumni Affairs*

OBJECTIVES

The purposes of the Alumni Association are: to promote the growth, progress, and general welfare of State College; to foster among its former students a sentiment of regard for one another and continuing attachment to their Alma Mater; and to interest prospective students in attending State College.

MEMBERSHIP ACTIVITIES

Active membership is available to all former students, regardless of length of stay at the college; members of the faculty, administrative staff, Agricultural Extension Service, Agricultural Experiment Station, teachers of agriculture in North Carolina high schools; and other persons who have successfully completed a short course at North Carolina State College and received a certificate therefor.

Honorary membership consists of such distinguished persons as are duly elected to honorary membership in the Association. The Association meets annually during Alumni Week. Class reunions (scheduled so that each class has a reunion every five years after graduation) are also held each year in connection with Alumni Week. Officers of the Association are elected by the active members each year through the medium of a mail ballot. Local State College clubs are organized in most of the counties in North Carolina and in a number of cities in other states.

ALUMNI FUND

This fund was established by the Alumni Association at State College in 1952 to replace the old dues paying program and provide a means through which the alumni may contribute to the advancement of the College. Each alumnus is invited to make an annual contribution.

STATE COLLEGE NEWS

State College News is published every month in the year by the Alumni Association and sent to contributors to the Alumni Fund. The purpose of the magazine is to keep Association members in touch with the College and with each other. It carries news and pictures of former and present students and of the college.

THE ALUMNI OFFICE

Records of both graduates and nongraduates are kept by the Alumni Office. The master file includes information on all former students; other files are arranged geographically and by classes. Biographical files are also kept.

Serving as a medium of communication between alumni and the College, the Alumni Office, located in the Old Infirmary Building, is official headquarters for alumni when they visit the campus.

COLLEGE FOUNDATIONS — — — — —

L. L. Ray, *Director*

There are eight foundations organized and incorporated under the laws of North Carolina which promote and support various programs of State College.

THE NORTH CAROLINA STATE COLLEGE FOUNDATION, INC.

was organized on December 11, 1942 to foster and promote the general welfare of North Carolina State College and to receive and administer gifts and donations for such purposes. The Board of Directors is composed of Alumni of State College and members of the Board of Trustees of the University of North Carolina.

THE NORTH CAROLINA AGRICULTURAL FOUNDATION, INC.

renders financial assistance through supplements in the development of strong teaching programs in agriculture and assists the Extension Service and Agricultural Experiment Station of the School of Agriculture at North Carolina State College.

THE NORTH CAROLINA DAIRY FOUNDATION, INC.

aims to promote and improve all phases of dairying in North Carolina through education, research, and extension. A Board of Directors of sixty persons handles the affairs of the Foundation; these directors represent distributors, producers, and jobbers.

THE NORTH CAROLINA ENGINEERING FOUNDATION, INC.

gives financial assistance to teaching, research, and extension in and through the School of Engineering.

THE NORTH CAROLINA TEXTILE FOUNDATION, INC.

was formed to promote the development of the School of Textiles, and was incorporated on December 31, 1942. Funds for this Foundation have been raised largely from textile manufacturing plants and other corporations and industries closely allied to textiles.

THE NORTH CAROLINA ARCHITECTURAL FOUNDATION, INC.

was organized in January, 1949. Foundation funds are used for the promotion and advancement of architectural education at North Carolina State College.

THE NORTH CAROLINA FORESTRY FOUNDATION

was incorporated April 15, 1929. The Foundation has acquired a tract of land known as the Hofmann Forest, consisting of about 80,000 acres in Jones and Onslow counties, which is used as a demonstration and research laboratory for forestry students.

PULP AND PAPER FOUNDATION, INC.

Incorporated December 19, 1954 by the southern pulp and paper mills, for the purpose of supporting the program of pulp and paper technology in the School of Forestry.

COLLEGE PUBLICATIONS

THE STATE COLLEGE RECORD

official publication of State College, is issued monthly and announces the results of special studies and of research by members of the faculty. The March issue is generally the annual Catalog, with announcements for the following year. Announcements concerning College Extension courses are also made through the *Record* series.

Brief notices of the short courses and special conferences which are held on the campus from time to time are issued by the Division of College Extension. The Director of Foundations likewise publishes brochures which are of special interest to North Carolinians.

THE STATELOG

is published monthly by the College to relate to the people of the state news of what is going on at State College and to strengthen the traditional link between the services of the College and the progress of the state. Subscription to the *Statelog* is free for all interested persons.

TECHNICAL AND SEMI-POPULAR BULLETINS

are issued by the Agricultural Experiment Station when research projects are completed or when they have progressed far enough that the results are seen to be of definite value. General publications interpreting the scientific findings of the Experiment Station or giving the results of Extension demonstrations are compiled by members of the Agricultural Extension staff and printed as circulars, folders, and pamphlets. Designed for popular use, these are usually written in a brief, clear style. Copies of these publications are sent free to citizens of the state upon request. Publication of these bulletins is announced by the press and radio of the state.

RESEARCH AND FARMING,

a quarterly bulletin journal written in popular style and giving the results of research and suggesting practical application of the information obtained is published by the Experiment Station.

EXTENSION FARM NEWS

published monthly, is the official house organ of the Extension Service. Subscription to both Research and Farming and Extension Farm News is free to citizens of North Carolina.

AGRICULTURE

An annual report published by the School of Agriculture contains a resume of activities of the Experiment Station, Extension Service, and Resident Teaching.

ENGINEERING SCHOOL BULLETINS

showing results of experimental and research projects in the School of Engineering are made available by the Department of Engineering Research.

ENGINEERING RESEARCH NEWS,

a quarterly publication of the Department of Engineering Research, is a review of current activities in the School of Engineering. Copies of these publications may be obtained from the Department.

TEXTILE PUBLICATIONS

pertaining to research may be secured from the Dean of the School of Textiles.

SUMMARY OF ENROLLMENT, 1957-58 — — — — —

RESIDENT STUDENTS

Regular Session	
Freshmen	1,639
Sophomores	1,383
Juniors	1,168
Seniors	1,170
Professionals	29
Graduates	557
Specials and Unclassified	202
Auditors	21
	<hr/>
	6,169
Men	6,020
Women	149
	<hr/>
	6,169

EXTENSION, CONFERENCES, SHORT COURSES

July 1, 1957—June 30, 1958

Extension Classes	3,620
Correspondence Courses	2,604
Short Courses and Con-	
ferences	5,409
Gaston Technical Institute	239
	<hr/>
	11,872

ENROLLMENT BY CURRICULA, 1957-58 — — — — —

REGULAR SESSION

SCHOOL OF AGRICULTURE

Agriculture	144
Agricultural Economics	31
Agricultural Engineering	71
Agri. and Biol. Chemistry	14
Agronomy	1
Animal Ecology	1
Animal Industry	81
Botany	2
Dairy Manufacturing	22
Entomology	4
Experimental Statistics	3
Field Crops	39
Horticulture	25
Mechanized Agriculture	23
Poultry Science	11
Rural Sociology	5
Soils	18
Wildlife Cons. and Mgt.	41
Zoology	10
Total	546

SCHOOL OF DESIGN

Architecture	193
Landscape Architecture	23
Total	216

SCHOOL OF EDUCATION

Agricultural Education	176
Industrial Arts	163
Industrial Education	2
Ind. and Rural Recreation	135
Mathematics Education	27
Science Education	13
Total	516

SCHOOL OF ENGINEERING

Ceramic	26
Chemical	215
Civil	508
Civil Engineering Const. Op.	154
Electrical	855
Engineering Mathematics	40
Engineering Physics	37
Furniture Mfg. and Mgt.	66
Geological	55
Heating and Air Cond.	64
Industrial	225
Mechanical	605
Mechanical Aero. Opt.	262
Metallurgical Eng.	19
Nuclear	303
Total	3,434

SCHOOL OF FORESTRY

Forestry	101
Forest Management	98
Pulp and Paper Technology	65
Wood Production Merchandising	21
Wood Technology	10
Total	295

SCHOOL OF TEXTILES

Textile Chemistry	53
Textiles	300
Total	353

NOT CLASSIFIED

Professionals	29
Unclassified Undergraduates, Auditors, and Special Students	223
Unclassified Graduates	25
Total	277

GRADUATE STUDENTS

Distribution of Graduate students by schools (included in above depart- mental classification):	
Agriculture	256
Education	74
Engineering	157
Forestry	21
Textiles	24
Total	532
GRAND TOTAL	6,169

TRUSTEES

THE CONSOLIDATED UNIVERSITY OF NORTH CAROLINA

North Carolina State College of Agriculture and Engineering
The University of North Carolina at Chapel Hill
The Woman's College at Greensboro

BOARD OF TRUSTEES

Luther H. Hodges, *Governor, Chairman Ex-Officio*

Arch T. Allen, *Secretary*

Charles F. Carroll, *State Supt. of Public Instruction, Member Ex-Officio*

TERM EXPIRING APRIL 1, 1961

Name	City	County
Wade Barber	Pittsboro	Chatham
Frank H. Brown, Jr.	Cullowhee	Jackson
Victor S. Bryant	Durham	Durham
John W. Clark	Franklinville	Randolph
W. Lunsford Crew	Roanoke Rapids	Halifax
R. Floyd Crouse	Sparta	Alleghany
Horton Doughton	Statesville	Iredell
A. C. Edwards	Hookerton	Greene
Henry A. Foscue	High Point	Guilford
Dr. L. J. Herring	Wilson	Wilson
Mrs. J. B. Kittrell	Greenville	Pitt
John D. Larkins, Jr.	Trenton	Jones
Dr. Harvey B. Mann	Lake Landing	Hyde
C. Knox Massey	Durham	Durham
Reid A. Maynard	Burlington	Alamance
Glenn C. Palmer	Clyde	Haywood
Edwin S. Pou	Raleigh	Wake
Mrs. S. L. Rodenbough	Walnut Cove	Stokes
A. Alex Shuford, Jr.	Hickory	Catawba
R. G. Stovall	Roxboro	Person
Dr. L. H. Swindell	Washington	Beaufort
Mrs. Charles W. Tillett	Charlotte	Mecklenburg
Carl V. Venters	Jacksonville	Onslow
J. Shelton Wicker	Sanford	Lee

TERM EXPIRING APRIL 1, 1963

Name	City	County
Mrs. Oscar Barker	<i>Durham</i>	<i>Durham</i>
Irwin Belk	<i>Charlotte</i>	<i>Mecklenburg</i>
Mitchell Britt	<i>Warsaw</i>	<i>Duplin</i>
Mrs. Mebane H. Burgwyn	<i>Jackson</i>	<i>Northampton</i>
S. N. Clark, Jr.	<i>Tarboro</i>	<i>Edgecombe</i>
T. J. Collier	<i>Bayboro</i>	<i>Pamlico</i>
A. Roy Cox	<i>Asheboro</i>	<i>Randolph</i>
Eugene Cross	<i>Marion</i>	<i>McDowell</i>
Ben E. Fountain	<i>Rocky Mount</i>	<i>Edgecombe</i>
O. Max Gardner, Jr.	<i>Shelby</i>	<i>Cleveland</i>
George Watts Hill	<i>Durham</i>	<i>Durham</i>
John H. Kerr, Jr.	<i>Warrenton</i>	<i>Warren</i>
M. C. Lassiter	<i>Snow Hill</i>	<i>Greene</i>
J. Spencer Love	<i>Greensboro</i>	<i>Guilford</i>
D. L. McMichael	<i>Madison</i>	<i>Rockingham</i>
Rudolph I. Mintz	<i>Wilmington</i>	<i>New Hanover</i>
Thomas O. Moore	<i>Winston-Salem</i>	<i>Forsyth</i>
Ashley M. Murphy	<i>Atkinson</i>	<i>Pender</i>
Mrs. B. C. Parker	<i>Albemarle</i>	<i>Stanly</i>
Mrs. Mary Stanford	<i>Chapel Hill</i>	<i>Orange</i>
Thomas Turner	<i>Greensboro</i>	<i>Guilford</i>
John W. Umstead, Jr.	<i>Chapel Hill</i>	<i>Orange</i>
Herman Weil	<i>Goldsboro</i>	<i>Wayne</i>
Sam L. Whitehurst	<i>New Bern</i>	<i>Craven</i>
Macon M. Williams	<i>Lenoir</i>	<i>Caldwell</i>

TERM EXPIRING APRIL 1, 1965

Name	City	County
Dr. Francis A. Buchanan	<i>Hendersonville</i>	<i>Henderson</i>
Dr. Jesse B. Caldwell	<i>Gastonia</i>	<i>Gaston</i>
Lenox G. Cooper	<i>Wilmington</i>	<i>New Hanover</i>
Marshall Y. Cooper	<i>Henderson</i>	<i>Vance</i>
Wilbur H. Currie	<i>Carthage</i>	<i>Moore</i>
Calvin Graves	<i>Winston-Salem</i>	<i>Forsyth</i>
Mrs. Albert H. Lathrop	<i>Asheville</i>	<i>Buncombe</i>
Dr. John G. Mebane	<i>Rutherfordton</i>	<i>Rutherford</i>
Larry I. Moore	<i>Wilson</i>	<i>Wilson</i>
Kemp B. Nixon	<i>Lincolnton</i>	<i>Lincoln</i>
Thomas J. Pearsall	<i>Rocky Mount</i>	<i>Nash</i>
Clarence L. Pemberton	<i>Yanceyville</i>	<i>Caswell</i>
James L. Pittman	<i>Scotland Neck</i>	<i>Halifax</i>
Mrs. Emily Harris Preyer	<i>Greensboro</i>	<i>Guilford</i>
H. L. Riddle, Jr.	<i>Morganton</i>	<i>Burke</i>
Roy Rowe	<i>Burgaw</i>	<i>Pender</i>
A. B. Smith, Jr.	<i>Dunn</i>	<i>Harnett</i>
John P. Stedman	<i>Lumberton</i>	<i>Robeson</i>
C. Lacy Tate	<i>Chadbourn</i>	<i>Columbus</i>
Dr. John C. Tayloe	<i>Washington</i>	<i>Beaufort</i>
H. P. Taylor	<i>Wadesboro</i>	<i>Anson</i>
W. Frank Taylor	<i>Goldsboro</i>	<i>Wayne</i>
F. E. Wallace	<i>Kinston</i>	<i>Lenoir</i>
Cameron S. Weeks	<i>Tarboro</i>	<i>Edgecombe</i>
Mrs. George Wilson	<i>Fayetteville</i>	<i>Cumberland</i>

TERM EXPIRING APRIL 1, 1967

Name	City	County
Arch T. Allen	Raleigh	Wake
Mrs. Ed M. Anderson	West Jefferson	Ashe
Ike F. Andrews	Siler City	Chatham
William C. Barfield	Wilmington	New Hanover
Mrs. J. W. Copeland	Murfreesboro	Hertford
Frank Hull Crowell	Lincolnton	Lincoln
Percy B. Ferebee	Andrews	Cherokee
Bowman Gray	Winston-Salem	Forsyth
Herbert Hardy	Maury	Greene
William B. Harrison	Rocky Mount	Nash
J. Frank Huskins	Burnsville	Yancey
Mack Jernigan	Dunn	Harnett
G. N. Noble	Trenton	Jones
Ernest E. Parker, Jr.	Southport	Brunswick
Frank Parker	Asheville	Buncombe
Claude W. Rankin	Fayetteville	Cumberland
T. Henry Redding	Asheboro	Randolph
Mrs. Dillard Reynolds	Winston-Salem	Forsyth
William P. Saunders	Southern Pines	Moore
Evander S. Simpson	Smithfield	Johnston
Walter L. Smith	Charlotte	Mecklenburg
Dr. Shahane Taylor	Greensboro	Guilford
Thomas B. Upchurch, Jr.	Raeford	Hoke
C. M. Vanstory, Jr.	Greensboro	Guilford
Hill Yarbrough	Louisburg	Franklin

EXECUTIVE COMMITTEE OF THE BOARD

Luther H. Hodges, *Governor, Chairman Ex-Officio*
 Arch T. Allen, *Secretary*
 Billie Curtis, *Asst. Secy.*

Wade Barber
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 Mrs. Rosa Parker
 Thomas J. Pearsall
 W. Frank Taylor
 J. W. Umstead, Jr.

NORTH CAROLINA STATE COLLEGE, OFFICERS OF ADMINISTRATION

ADMINISTRATIVE COUNCIL

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Zoology, Department of	66
Curriculum in Wildlife Conservation and Management	66





AERIAL VIEW OF CAMPUS

ITS PRODUCT

State College is proud of its thousands of well-trained, substantial alumni who are helping to build a better world. They are now engaged . . .

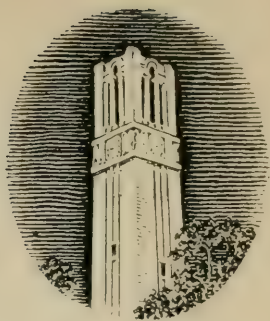
- in erecting bridges over giant chasms.
- in building dams and power plants to rescue wastelands and give light and power to millions.
- in teaching farmers all that science has learned about agriculture.
- in stringing highways throughout the land.
- in clothing the civilized world in the finest and most durable raiment the textile industry can produce.
- in creating new magic in chemistry and ceramics.
- in developing and conserving our natural resources.
- in putting power into mechanical giants.
- in preserving and replanting our forests.
- in designing and constructing homes and buildings more pleasant and comfortable and appealing than earlier generations ever knew.
- in delving into a thousand research projects from which will emerge richer and fuller lives for untold millions.

These productive and creative alumni serve both to point up the outstanding quality of the research and teaching activities of State College and to furnish inspiration and stimulus to both faculty and students of the present and future. State College has high regard for the youth of North Carolina; it pledges itself to continue the highest possible level of instruction.

N. C. State belongs to all the people, and has functions unique among the colleges and universities of our state . . . we seek a more efficient and diversified agriculture; better management of our forest and utilization of their products; the development of better methods for our textile, tobacco, furniture, and other industries . . .

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Carey Hoyt Bostian
Chancellor, 1953—



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NORTH CAROLINA STATE COLLEGE

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NORTH CAROLINA

STATE COLLEGE DIRECTORY

FACULTY, ADMINISTRATIVE
AND CLERICAL STAFFS

1960-1961

STATE COLLEGE STATION
RALEIGH

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1960-61
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Pinkerton } 339
Bowen }
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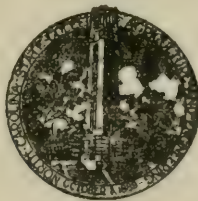
NORTH CAROLINA STATE COLLEGE OF Long 383
AGRICULTURE AND ENGINEERING OF THE
UNIVERSITY OF NORTH CAROLINA

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CLERICAL STAFFS

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RALEIGH

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Asst. Dir. of Extension	Ruth Current	101-A Ricks	244
Asst. Dir. of Extension	George Smith	108 Ricks	213
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Asst. Dir. of Research	H. A. Stewart	102 Patterson	471
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Farm Management Ext.	W. L. Turner	220 Patterson	306
Farm Marketing Ext.	J. M. Curtis	220-E Patterson	291
Agricultural Engineering	F. J. Hassler	203 Mangum	342
Agricultural Engr. Ext.	H. M. Ellis	316 Ricks	274 & 389
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An. Husb. Section	E. R. Barrick	216-A Polk	276 & 326
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Animal Nutrition Section	G. H. Wise	304 Polk	241 & 574
Dairy Husb. Section	W. E. Thomas	115 Polk	268 & 360
Dairy Extension	T. C. Blalock	102 Polk	321 & 277
Dairy Mfg. Section	W. M. Roberts	204 Polk	371
Veterinary Section	E. G. Battle	An. Disease Bldg.	486
Botany and Bacteriology	H. T. Scofield	250 Gardner	267
Entomology	C. F. Smith	142 Gardner	408
Entomology Ext.	G. D. Jones	140 Gardner	201
Field Crops	P. H. Harvey	258 Williams	217 & 262
Agronomy Extension	E. R. Collins	252 Williams	294
4-H Club (Extension)	L. R. Harrill	200 Ricks	214
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Clothing	Mary Em Lee	300 Ricks	221
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Home Management	Mamie N. Whisnant	305 Ricks	285
Home Marketing	Iola F. Pritchard	214 Ricks	242
Housing & House Furnishings	Pauline E. Gordon	210 Ricks	462
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Horticulture Extension	John H. Harris	235 Kilgore	296 & 476
Plant Pathology	D. E. Ellis	113 Gardner	373
Plant Pathology Ext.	H. R. Garriss	9 Gardner	336
Poultry Science	H. W. Garren	120 Scott	368
Poultry Extension	C. F. Parrish	211 Scott	376
Rural Sociology	S. C. Mayo	334 1911 Bldg.	312
Soils	J. W. Fitts	222 Williams	470 & 488
Zoology	F. S. Barkalow	155 Gardner	239

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Landscape Architecture	H. L. Kamphoefner	200 Brooks	250
Product Design	Austin R. Baer	200-D Brooks	343
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Agricultural Education	C. C. Scarborough	103 Tompkins	257
Industrial Arts	Ivan Hostetler	106 Tompkins	258
Industrial Education	D. M. Hanson	218 1911 Bldg.	478
Occup. Infor. & Guid.	Roy N. Anderson	224 1911 Bldg.	478
Psychology	Howard G. Miller	123 Tompkins	286
Rec. & Park Adm.	Thomas I. Hines	Field House	440
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Dean	J. H. Lampe	229 Riddick	216
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Director of Placement	W. H. Simpson	239 Riddick	424
Coordinator of Stu. Aff.	W. E. Adams	232 Riddick	404
Chemical Engineering	E. M. Schoenborn	113 Riddick	301
Civil Engineering	Ralph E. Fadum	354-A Mann	432
Electrical Engineering	George B. Hoadley	320-A Daniels	236
Engineering Mechanics	Patrick H. McDonald	325 Riddick	317
Engineering Research	N. W. Conner	129 Riddick	248 & 423
Industrial Engineering	Clifton A. Anderson	328 Riddick	307
Mechanical Engineering	John F. Lee	211 Broughton	449
Mineral Industries	W. W. Austin	109 Page	302
Nuclear Engineering	Harold A. Lamonds	223 Riddick	404
FORESTRY			
Dean	R. J. Preston	160 Kilgore	270 & 282
Forestry (Extension)	*Walter M. Keller	264 Kilgore	407
Forest Management	T. E. Maki	152 Kilgore	406
Pulp & Paper Technology	*R. G. Hitchings	106 Robertson Lab.	485
Wood Products	*R. J. Preston	160 Kilgore	270 & 282
GENERAL STUDIES			
Dean	Fred V. Cahill, Jr.	103 Peele	223
Economics	Ernst Swanson	102 Peele	333
English	Lodwick Hartley	118 Winston	237
History & Pol. Sci.	P. W. Edsall	114 Winston	356
Modern Languages	George W. Poland	205 Peele	231
Philosophy & Religion	W. N. Hicks	204 Peele	374
Physical Education	Paul H. Derr	Gymnasium	496 & 218
Social Studies	George A. Gullette	212 Winston	200
Sociology & Anthropology	Sanford Winston	201-A Peele	374

* Acting

ACADEMIC SCHOOLS AND DEPARTMENTS

Department	Head	Office	Ext.
PHYSICAL SCIENCES AND APPLIED MATHEMATICS			
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Asst. to the Dean	C. G. Mumford	119 Riddick	500 & 539
Chemistry	*W. A. Reid	107 Withers	266
Experimental Statistics	J. A. Rigney	112 Patterson	375
Mathematics	John W. Cell	221 Tompkins	227
Nuclear Reactor	E. Jack Story	31 Nuclear Reactor	393
Physics	Raymond L. Murray	5 Nuclear Reactor	229 & 577

TEXTILES

Dean	M. E. Campbell	101 Nelson Textile	422 & 273
Director of Tex. Res. Center	William A. Newell	107 Nelson Textile	560
Director of Placement	G. H. Dunlap	110 Nelson Textile	562
Knitting Technology	W. E. Shinn	102 Textile	289
Machine Design	C. M. Asbill, Jr.	117 Nelson Textile	419
Textile Chemistry	H. A. Rutherford	21 Nelson Textile	341
Textile Technology	Elliot B. Grover	111 Nelson Textile	327

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Director	Harlan C. Brown	132 Library	259
Asst. Director	Isaac T. Littleton	108 Library	344
Catalog	Martha F. Lineberry	109 Library	563
Circulation	Katherine A. Edsall	106 Library	372
Documents	Mary E. Poole	118 Library	398
Order	Anne L. Turner	113 Library	563
Reference	Emma W. Pohl	122 Library	398
Serials	Gloria K. Whetstone	12 Library	344
Tobacco Literature Ser.	Margaret C. Drenowatz	233 Library	477
Design Library	Harrye Lyons	201 Brooks	361
Textile Library	Adriana P. Orr	112 Nelson Textile	421

SUMMER SCHOOL

Director	Jack Suberman	101 Pullen	435
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Assistant Director	Sherrill K. Brinkley	109 Alumni	252 & TE 3-1010

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Baseball Coach	Victor G. Sorrell	122 Coliseum	TE 2-2407 & 340
Baseball Coach (Freshman)	Jennings B. Edwards	Gymnasium	218 & 496
Basketball Coach	Everett N. Case	104 Coliseum	TE 4-1881 & 340
Football Coach	Earle L. Edwards	130 Coliseum	TE 2-6934 & 340
Golf Coach	Albert P. Michaels	130 Coliseum	TE 2-6934

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Tennis Coach	John F. Kenfield, Jr.	Gymnasium	218 & 496
Track Coach	Paul Derr	Gymnasium	218 & 496
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Wolfsack Club Director	Warren Carroll	108 Coliseum	TE 4-2241
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Asst. Business Manager	John E. Hills	"B" Holladay	298 & 544
Asst. Budget Officer	John D. Wright	"B" Holladay	538
Cashier	Shirley G. Hamilton	"B" Holladay	278
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CAFETERIA			
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Asst. Director	R. L. Oliver	Leazar	TE 3-4825-6
COLISEUM, WILLIAM NEAL REYNOLDS			
Director	Roy B. Clogston	105 Coliseum	TE 2-2407
COLLEGE EXTENSION DIVISION			
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Vice-Chairman	R. B. Knight	223 Broughton	446
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Radiological Safety Officer	L. T. Caruthers	200 Nuclear Sci. Bld.	575 & 553
Director of Nuc. Reactor Proj.	E. J. Story	32 Reactor Bldg.	393
DORMITORY RENTAL			
Director	James S. Fulghum, Jr.	4 Holladay	349
FOUNDATIONS			
Director	L. L. Ray	"A" Holladay	322
Asst. Director	C. W. Hart	"A" Holladay	322
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Asst. Director	Macon R. Rowland	102 Morris	TE 3-8528
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Administrative Asst.	John E. Higgins	111 Morris	TE 3-8528
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Buildings Supt.	Charles C. Braswell	113 Morris	TE 3-8528 & 392
Shop Supt.	Leon I. Parrish	Morris	TE 3-8528 & 451
Power Plant Supt.	Frank R. Kennedy	Power Plant	TE 3-8528 & 328
Grounds Supt.	Harold G. Bolick	1 Morris	TE 3-8528
Chief Clerk	Page Billingsley	100 Morris	TE 3-8528
Services:			
Central Stores	A. H. Adams	108 Morris	463
Laundry	Joseph R. Gower	Laundry	283

NON-ACADEMIC DEPARTMENTS AND SERVICES

Department	Head	Office	Ext.
MARRIED STUDENT HOUSING			
Manager	Wilton Fleming	Rm. 100, Bldg. P	TE 2-4306
NATIONAL SCIENCE REGISTER			
Manager	Roberta T. Chesnut	Rm. 101, 400 Oberlin	265
NEWS BUREAU			
Director	Rudolph Pate	Watauga Hall	VA 8-9707 & 253
Associate Director	Joseph S. Hancock	Watauga Hall	253
Asst. Editor	Nancy D. Williford	Watauga Hall	253
N. C. CROP IMPROVEMENT ASSOCIATION			
Director	John C. Rice	193 Williams	TE 4-7542 & 207
N. C. FOUNDATION SEED PRODUCERS, INC.			
Manager	R. W. McMillen	124 Williams	TE 2-1573
PRINT SHOP			
Manager	L. B. Phillips	Print Shop Bldg	TE 3-4151 & 281
PURCHASING			
Purchasing Agent	John C. Williams	107 1911 Bldg.	230 & 459
Asst. Purchasing Agent	Perry A. Tucker	106 1911 Bldg.	230 & 459
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Student Activities			
Director	Banks C. Talley, Jr.	206 Holladay	370
Asst. Director	Henry Bowers	206 Holladay	215
College Union			
Director	G. O. T. Erdahl	216 College Union	TE 4-7310
Asst. Director	Richard S. Heaton	214 College Union	TE 4-7310
Social Director	David W. Phillips	College Union	378
Craft Shop Dir.	Carol H. Johnson	College Union	378
Reservations	Neill S. Briggs	216 College Union	TE 4-7318-9
Music Activities			
Director	*J. Perry Watson	102 Pullen	251
Asst. Director	Donald B. Adcock	104 Pullen	251
Student Publications	Julia Lucas	313 1911 Bldg	TE 3-4810
Religious Activities			
Coordinator	Oscar B. Wooldridge	King Relig. Center	TE 2-7184
Asst. Coordinator	Thomas M. Johnston	King Relig. Center	TE 2-7184
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Baptist	LeRoy P. Richardson	2702 Hillsboro St.	TE 2-1835
Catholic	Father John Breunig	King Relig. Center & 218 Pittsboro St., Chapel Hill, N. C.	9-2581
Congregational—			
Christian, Friends	*James Ray	743 W. Johnson St.	TE 2-4676
Disciples of Christ	R. Fred West	219 Oberlin Rd.	VA 8-5662
Episcopal	Roderick Reinecke	King Relig. Center	TE 2-7184
Jewish	Rabbi E. M. Rosenzweig	King Relig. Center & 210 W. Cameron St. Chapel Hill, N. C.	8-9168

* Acting

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Methodist	Neal McGlamery	2501 Clark Ave.	TE 3-1869
Moravian	Alan H. Barnes	3225 Darien Dr.	TE 3-3840
Presbyterian	T. Hartley Hall	3406 Leonard St.	VA 8-5469
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Asst. Director	E. Glenn Overton	12 Holladay	219
Asst. Director	Charles P. Greyer	9 Holladay	552
Academic Records and Permanent Files		10 Holladay	489
Admissions Office		14 Holladay	205
Counseling			
Director	Lyle B. Rogers	201 Holladay	224
Asst. Director	Kingston Johns, Jr.	207 Holladay	460
Asst. Director	George F. Needham	203 Holladay	397
Counseling Center		203 Holladay	397
Financial Aid Office		207 Holladay	460
Student Health Service			
Director	Dr. J. J. Combs	Clark Hall	TE 2-7615
Student Housing			
Director	N. B. Watts	207 Holladay	434
Air Force ROTC	Col. Robert C. Paul	145 Coliseum	314
Army ROTC	Col. L. W. Merriam	154 Coliseum	233
Military Supply	H. C. Thomas	Gymnasium	232
STUDENTS SUPPLY STORES			
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Asst. General Manager	Mark H. Wheless	New SSS Bldg.	
Manager SSS Bldg.	G. G. Glass	New SSS Bldg.	511 &
Dir. of Purchasing	William F. Tant	New SSS Bldg.	TE 3-1936
Manager Book Dept.	C. L. Chambers	New SSS Bldg.	
Manager Fountain Oper.	Monty Carde	New SSS Bldg.	
Mgr. Coliseum Concessions	W. L. Gouge, Jr.	119 Coliseum	452 & TE 4-9197
TELEPHONE SERVICES AND ACCOUNTS			
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Supervisor	Bessie B. Turner	116 Winston	0
Operator	Annie P. Cooke	116 Winston	0
Operator	Rosa G. Thompson	116 Winston	0
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VETERANS ADMINISTRATION			
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VISUAL AIDS			
Head	Landis S. Bennett	3 Ricks	458

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G. R. Barker
T. T. Brown
J. F. Page
V. D. Sherrill
Alternates:
J. E. Ingram
M. B. Phillips
T. H. Stevens

OFFICERS OF FACULTY SENATE, 1960-61

Chairman: J. S. Doolittle
 Vice-Chairman: D. D. Mason
 Secretary: G. C. Klingman

FACULTY SENATE MEMBERSHIP, 1960-1961

Name	Term Ending	Department	Phone	Address
Banadyga, A. A.	1961	Agriculture Ext.	476	231 Kilgore
Berry, E. B.	1962	Textiles	419	206 Textile
Bredenberg, P. A.	1962	Phil. & Religion	374	204 Peele
Bryant, R. C.	1962	Forest Management	406	150 Kilgore
Bullock, R. C.	1962	Mathematics	436	235 Riddick
Carter, R. M.	1961	Wood Products	270	158 Kilgore
Cox, J. H.	1962	Design	547	301 Brooks
Doolittle, J. S.	1961	Mech. Engineering	447	229 Broughton
Eldridge, H. G.	1962	English	325	11 Winston
Elliott, C. D.	1961	Architecture	437	312 Brooks
Hassler, F. J.	1961	Agri. Engineering	342	202 Mangum
Holtzman, A.	1961	History & Pol. Sci.	356	115 Winston
Hyatt, G., Jr.	1961	Animal Industry	320-431	117 Polk
Johnson, C.	1962	Psychology	286	123 Tompkins
Klingman, G. C.	1962	Field Crops	550	464 Williams
Kriegel, W. W.	1961	Cer. Engineering	249	109 Page
Llewellyn, R. W.	1961	Ind. Engineering	428	342 Riddick
Manning, E. G.	1962	Elec. Engineering	430	225 Daniels
Mason, D. D.	1961	Statistics	313-335	120D Patterson
McCullough, C. R.	1962	Civil Engineering	568	240 Mann
Meares, J. S.	1961	Physics	353	202 Daniels
Miller, L. L.	1962	Rec. & Park Admin.	440	Field House
Murray, R. L.	1962	Physics	229	5 Burlington Nuc. Labs
Noblin, S.	1961	History & Pol. Sci.	356	215 Winston
Nusbaum, C. J.	1961	Plant Pathology	380	102 Gardner
Olsen, B. M.	1962	Economics	333	107 Peele
Park, H. V.	1962	Mathematics	228	218 Tompkins
Porter, J. A.	1962	Textiles	417	103 Nelson Textiles
Quay, T. L.	1962	Zoology	445	242 Gardner
Seely, J. F.	1962	Chem. Engineering	357	216 Riddick
Young, T. B.	1962	Industrial Arts	258	106 Tompkins

FACULTY SENATE STANDING COMMITTEES, 1960-61

Chairman: J. S. Doolittle

Vice-Chairman: D. D. Mason

Secretary: G. C. Klingman

COMMUNICATIONS

D. D. Mason, Chairman

H. G. Eldridge

E. G. Manning

R. M. Carter

E. G. Manning

S. M. Noblin

C. J. Nusbaum

H. V. Park

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C. R. McCullough, Chairman

A. Holtzman

C. Johnson

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R. W. Llewellyn, Chairman

A. A. Banadyga

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G. Hyatt

J. S. Mears

L. L. Miller

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R. C. Bullock, Chairman

J. H. Cox

H. G. Eldridge

A. Holtzman

C. Johnson

W. W. Kriegel

R. L. Murray

J. A. Porter

T. L. Quay

PERSONNEL PROBLEMS

C. D. Elliott, Chairman

E. B. Berry

P. A. Bredenberg

J. F. Seely

EXECUTIVE

J. S. Doolittle, Chairman

R. C. Bullock

R. C. Bryant

C. D. Elliott

G. C. Klingman

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D. D. Mason

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C. J. Nusbaum

SALARY

F. J. Hassler, Chairman

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T. L. Quay

HONORARY DEGREES

J. A. Porter, Chairman

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STUDENT AFFAIRS

R. C. Bryant, Chairman

P. A. Bredenberg

R. L. Murray

J. F. Seely

T. B. Young

FACULTY AND STAFF DIRECTORY

A

Name, Title, Department, and Address	Office Phone	Res. Phone
•Adams, A. Harvey, Central Stores Manager, M & O 108 Morris Building; 210 Second St., Clayton, N. C.	463	WA 2-6333
•Adams, Albertina O., Secretary, Student Health Ser. Clark Hall Infirmary; 1724 Nottingham Road	TE 2-7615	TE 3-4903
Adams, Hazel C., Bookkeeper, For. 162 Kilgore; 405 Brooks Avenue	270	TE 2-6183
†Adams, Virginia K., Lab. Technician, Hort. 3 Kilgore Hall; 1405 Mordecai Drive	455	TE 3-7950
•Adams, William Elton, Coordinator of Stud. Affairs, Engr. 232 Riddick; 204 Faircloth Street	404	TE 2-1393
•Adcock, Donald B., Acting Director of Bands, Music Pullen Hall; 4318 14th Street	251	TE 3-4438
•Adkins, Vivian E., Research Assistant, St. 120-H Patterson Hall; 1205 Carlton	TE 3-2454	TE 4-7890
•Agnew, Louis S., Instructor, Civil Engr. 132 Mann Hall; 1023 St. Mary's Street	391	TE 4-4725
•Aldridge, J. Reid, Dairy Herdsman, An. Ind. Dairy Farm; 4700 Hillsboro Street	TE 2-9763	TE 4-0157
•Alexander, Doris H., IBM Supervisor, National Sci. Register Room 101, 400 Oberlin Rd., 413 E. Park, Cary, N. C.	265	HO 7-9546
•Alexander, Elaine G., Secretary, Exp. Stat. 112-B Patterson; Rt. 1, Loop Rd., Garner, N. C.	313, 335	EM 2-5391
†Alford, Ella M., Printer, Print Shop Print Shop; 208 Groveland Avenue	TE 3-4151	TE 2-8263
•Allen, A. V., An. Husbandry Ext. Specialist, Ag. Ext. 201 Polk Hall; 1314 Rand Drive	269, 498	TE 2-4564
Allen, Margaret E., Secretary, Registration 9 Holladay; 614 Walnut Rd., Cary, N. C.	552	HO 7-9367
•Allen, Rosa Lee, Secretary, Summer Sessions 101 Pullen; 661 Shelley Road	435	TE 4-0456
•Allgood, James G., Farm Management Specialist, Ag. Ext. 220 Patterson; 405 Union Street, Cary, N. C.	306	HO 7-9547
•Alliston, Charles Walter, Asst. Prof., Zo. 343-G Gardner; 1507 Powell Drive	225	TE 2-3972
•Alliston, Katie B., Secretary, Field Crops 256 Williams Hall, 1507 Powell Drive	262	TE 2-3972
•Allred, Fred J., Asst. Prof., Modern Languages 207 Peele; 3016 Mayview	231	TE 2-3588
•Alphin, John G., Research Assistant, Ag. Engr. 107 Agr. Engr. Bldg., 3114 Douglas Street	479	—
•Alphin, Stephany P., Secretary, Chancellor "A" Holladay; Q-5, Raleigh Apartments	210	TE 3-3650
Alvarez, Raul E., Asst. Prof., Industrial Engr. 338 Riddick; 2713 Clark Drive	428	—
•Amein, Michael, Asst. Prof., Civil Engr. 450 Mann; 1851 W. Smallwood Drive	391	TE 4-1076
•Ammerman, James P., Farm Superintendent, An. Ind. A. H. Farm; Rt. 1, Cary, N. C.	TE 3-9267	TE 3-9267
•Ammerman, Talitha C., Accounting Clerk, Hort. 118 Kilgore; Rt. 1, Cary, N. C.	275	TE 3-9267
•Anderson, Charles N., Instructor, Math. 216 Tompkins; 207 Wilmot Drive	228	TE 4-7466
•Anderson, Carolyn I., Key Punch Operator, An. Ind. 9 Patterson; Box 525, Wake Forest, N. C.	387	EX 5-2433

•Married

†Widowed

Name, Title, Department, and Address	Office Phone	Res. Phone
*Anderson, Clifton A., Prof. & Head, Ind. Engr. 328 Riddick; 320 Yadkin Street	307	TE 4-4914
Anderson, Jean, Accounting Clerk, Tex. Res. 126 Nelson Tex; 2472 Wade Ave.	561	VA 8-6102
Anderson, Patricia A., Library Asst., Library 12 D. H. Hill Library; 114½ East Park Drive	344	TE 4-5826
*Anderson, Richard L., Professor, Exp. Stat. 110 Patterson; 1007 James Place	313, 335	TE 3-0212
*Anderson, Roy N., Prof. and Head, Occup. Inform. & Guid. 224 1911 Building; 117 Forest Road	478	TE 3-4090
*Andrews, Joseph M., Ag. Res. Asst., An. Ind. 308 Polk; 716 Bailey Drive	214, 574	VA 8-4527
*Andrews, W. G. Ext. Poultry Specialist, Poultry 209 Scott Hall; 2332 Avent Ferry Road	376	TE 2-5109
*Apple, J. Lawrence, Associate Prof., Plant Path. 4 Gardner; 512 S. Lakeside Drive	381	TE 3-0496
Arant, Anamerle, Dist. Home Econ. Agent, Ag. Ext. 205 Ricks Hall; 1821 Glenwood Ave.	212	TE 2-8089
Arey, Mary L., Secretary, Ag. Ext. Service 220 Patterson Hall; 5 Maiden Lane	306	TE 2-3535
Armstrong, Arthur A., Jr., Res. Assoc. Prof., Tex. Res. S-54 Nelson Textile; 1889 W. Smallwood Drive	394	VA 8-6105
Arnas, Ozer A., Instructor, Mech. Engr. 319 Broughton;	450	—
*Arnold, Hubert C., Housekeeping Supervisor, M & O 2 Morris Bldg.; 110 Dennis Ave.	234	TE 3-4137
*Arp, James Carlton, Technician, Ent. 129 Gardner; Denton's Trailer Park	408	—
*Arrington, Clyde, Scientific Aid, Agr. Engr. 113 Agr. Engr. Bldg.; Rt. 1, Box 2, Apex, N. C.	479	EL 4-3193
*Asbill, Clarence M., Jr., Prof. & Head, Tex. 117 Nelson Tex.; 2407 Stafford Avenue	419	TE 2-4957
*Aull, Helen L., Res. Analyst, Poultry 202 Scott; 2722 Vanderbilt Ave.	352	TE 3-0184
*Aurand, Leonard W., Professor, An. Ind. 211 Polk; Rt. 4, 912 Walnut Trail	319, 545	TE 4-5113
*Austin, William W., Prof. & Head, Mineral Industries 109 Page; 3221 Birnamwood Drive	302	TE 2-1738
*Averett, L. T., Mechanic, Ag. Engr. Ag. Engr. Bldg; Rt. 7, Raleigh, N. C.	484	VA 8-6644
*Averette, Fred Gilbert, Ag. Res. Asst., Soils 428 Williams; Rt. 1, Knightdale, N. C.	334	CO 6-2805
*Aycock, Robert, Assoc. Prof., Plant Path. Crops Res. Station, Castle Hayne, N. C.; Wilmington, N. C.	RO 2-8344	—
*Ayscue, Kay-Ellen W., Steno., Textiles 103 Nelson Textile; 1227 Duplin Road	289	TE 3-9128

B

*Badders, F. Hal, Asst. Power Plant Supt., M & O Power Plant; 610 Dixie Trail	392	TE 2-2452
*Baer, Austin R., Assoc. Prof. & Head, Product Design 200-D Brooks; Rt. 1, Wake Forest, N. C.	343	VA 8-6648
Bailey, Janie R., Secretary, Mechanical Engr. 211 Broughton; Rt. 7, Raleigh, N. C.	449, 246	TE 3-4214
*Baker, Dorothy V., Res. Asst., An. Ind. Basement, Polk Hall; 2366 Grant Avenue	TE 3-0531	VA 8-5774

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Name, Title, Department, and Address	Office Phone	Res. Phone
*Baker, Virginia C., Res. Asst., Poultry 10 Scott Hall; 2702 Bedford Avenue	474	—
*Ball, Ernest A., Prof., Botany 256 Gardner; 1220 Duplin Road	267	TE 4-6655
*Ball, George F., Printer, Print Shop Print Shop; Rt. 1, Cary, N. C.	TE 3-4151	VA 8-9634
*Ballenger, Stanley T., Assoc. Prof., Modern Languages 213 Peele; 2714 Rosedale Ave.	231	TE 2-9570
Ballinger, Walter E., Assoc. Prof., Hort. 224 Kilgore; 2712 Vanderbilt Ave.	570	TE 2-1952
*Banadyga, Albert A., Hort. Specialist, Hort. 231 Kilgore; 705 Dixie Trail	296, 476	TE 3-8994
*Banadyga, Jerry H., Typist, Mechanical Engr. 211 Broughton; 705 Dixie Trail	449	TE 3-8994
*Barber, C. W., Prof., Poultry 108 Scott; 704 Grove Street	366	TE 3-0278
†Barbour, Irma M., Secretary, Soc. & Ant. & Phi. & Rcl. 202 & 204 Peele; 1614½ Park Drive	374	TE 3-0450
Barbour, Maxine L., Secretary, Rec. & Park Adminis. Field House; Cameron Court Apts.	350	TE 4-5610
*Barclay, William J., Prof., Electrical Engr. 435 Daniels; 208 Avon Drive	395	TE 2-0737
*Barham, Cary G., Dairy Plant Operator, An. Ind. Basement, Polk Hall; 409 Lansing St.	TE 3-0531	TE 4-8580
*Barham, Linwood W., Lab. Tech., Tex. Res. 233 Nelson Textile; Rt. 3, Wake Forest	414	TE 4-2861
*Barkalow, Frederick S., Jr., Prof., Zoology 155 Gardner; 2610 Wade Ave.	239	TE 3-4397
*Barkley, Key L., Prof., Psychology 123 Tompkins; 2204 Garden Place	286	TE 4-7098
*Barnes, Alan H., Moravian Chaplain, Religious Activities 3225 Darien Dr.; 3225 Darien Drive	TE 3-3840	TE 3-3840
*Barnes, E. Floyd, Agr. Res. Supervisor, Field Crops 139 Williams; Rt. 1, Raleigh, N. C.	222	TE 3-7838
*Barnes, Hazelene P., Clerk, Rural Soc. 340 1911 Building; 3302 Buffalo Rd.	465	TE 4-5674
*Barnes, Lillian M., Steno., College Ext. 113 1911 Building; 136 Woodburn Rd.	564	TE 2-5015
Barnes, Peggy W., Asst. Social Director, College Union College Union; 509 Burton Street	TE 4-7318	VA 8-5971
*Barnes, Robert A., Director of Music, Music Pullen Hall; 769 Kettering Rd., Columbus 2, Ohio	251	—
*Barnhardt, Luther W., Assoc. Prof., Hi & Pol. Sci. 113 Winston; 2502 Stafford Avenue	356	TE 2-8796
*Barnhart, Catherine G., Instructor, Eng. 15 Winston Hall; 1417 Jackson St.	325	TE 2-1892
*Barnhart, William J., Asst. Prof., English 217 Winston; 1417 Jackson St.	325	TE 2-1892
*Baron, William J., Instructor, Product Design 103 Brooks; 1811½ White Oak Rd.	438	TE 3-5439
*Barrett, Dixie H., Library Asst., D. H. Hill Library D. H. Hill Library; 2405 Grant Avenue	372	—
*Barrett, James F., Major, Asst. Prof., Military Science 154 Coliseum	233	
*Barrick, Elliott R., Prof., An. Ind. 216-A Polk Hall; 5310 Old Stage Rd.	276, 326	TE 4-2420
*Bartholomew, William V., Professor, Soils 358 Williams; 618 Stacy	220	TE 2-8954

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Name, Title, Department, and Address	Office Phone	Res. Phone
*Bartlett, Shirley B., Steno., Business Off. "B" Holladay Hall; 2707 Bedford Avenue	298	TE 4-3128
*Bartley, Andrew J., Assoc. Prof., Economics 113 Peele; Rt. 4, Raleigh, N. C.	333	TE 3-3365
*Batchelor, Maxine M., Steno., Field Crops 428 Williams; 403 Wayne Drive	334	TE 4-0665
*Batchelor, Robert E., Lithographic Pressman, Ag. Inf. 21 Ricks Hall; Box 212, Wendell, N. C.	254	FO 5-9291
*Bates, Marilyn L., IBM Key punch Operator, National Sci. Reg. Rm. 101, 400 Oberlin Rd.; 1223 Brookside Drive	265	TE 3-7569
*Batte, Edward G., Professor, An. Ind. Animal Disease Lab.; 715 Beaver Dam Rd.	486	TE 3-9766
Batten, A. Perry, Clerk, Ag. Ext. 113 Ricks; 9 Elizabeth St.	271	VA 8-6360
*Batten, Carolyn H., Stock Clerk, Tex. Res. 325 Nelson Tex.; 620 Grove Avenue	413	TE 2-1803
*Batton, Elva A., Printer, Print Shop Print Shop; 150 Maywood Avenue	TE 3-4151	TE 3-5466
*Beal, Ernest O., Assoc. Prof., Botany 255 Gardner; 2813 Van Dyke Avenue	267	TE 4-5007
*Beam, Homer E., Visiting Lecturer, Ag. Education 103 Tompkins; 4516 Laurel Hills Rd.	257	VA 8-9860
*Bean, K. C., Ext. Poultry Specialist, Poultry 214 Scott; 116 Parker Street	376	TE 4-9441
*Beasley, Eustace O., Res. Instructor, Ag. Engr. 111 Agr. Engr. Bldg.; 3606 Woodside Rd.	475	TE 4-0979
*Beasley, Mary C., Secretary, Foundations "A" Holladay Hall; 714 S. Kimbrough St.	322	TE 3-9066
*Beatty, Kenneth O., Prof., Chemical Engr. 114 Riddick; 323 Shepherd St.	309	TE 3-7626
*Beatty, Neill M., Instructor, Mechanical Engr. 284 Broughton; 2413 Greenway Avenue	247	TE 4-0176
*Beeman, James F., Res. Instructor, Ag. Engr. 101 Mangum; 1006 Barber Drive, Garner, N. C.	342	EM 2-5321
*Beers, Burton F., Asst. Prof., Hi. & Pol. Sci. 115 Winston; 629 S. Lakeside Drive	356	TE 4-8349
*Bell, Norman R., Assoc. Prof., Electrical Engr. 331 Daniels; 2312 Woodrow Drive	430	TE 4-3825
*Bell, Oliver A., Mechanic, Civil Engr. 145-A Mann Hall; 2604 Garner Road	303	TE 3-3774
*Bell, Rebekah, Secretary, Ent. 325 Gardner Hall; 2816 O'Berry Street	409	TE 3-2672
*Bell, Thomas A., Assoc. Prof., An. Ind. 312 Polk Hall; 117 Montgomery St.	206	TE 3-6154
*Bell, William C., Head, Industrial Experimental Program IEP Building; 3044 Lewis Farm Road	464	TE 3-8242
Belvin, Nancy L., Secretary, News Bureau Watauga Hall; 1811 Sunset Drive	253, VA 8-9707	TE 2-0373
*Bennett, Landis S., Head of Visual Aids, Ag. Inf. 3 Ricks; 2638 Kilgore Avenue	458	TE 3-6283
*Bennett, Landrum M., Secretary, Dean of the Faculty 110 Holladay Hall; 2656 Oberlin Road	466	TE 3-8522
*Bennett, Melvin S., Accounting Clerk, An. Ind. 116 Polk Hall; 4205 Western Blvd.	320, 431	TE 2-6223
*Bennett, Mitchell H., Ag. Res. Asst., Plant Path. 7 Gardner; 705 Nellane Drive, Garner, N. C.	381	EM 2-1216
*Bennett, Roy R., Agronomy Ext. Spec., Ag. Ext. 454 Williams; 2922 Barmettler St.	329	TE 2-1210

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Name, Title, Department, and Address	Office Phone	Res. Phone
*Bentley, Betty T., Steno., Plant Path. _____ 113 Gardner; 5304 E. Lakeside	373	TE 4-5821
*Bentley, John W., Ag. Res. Asst., Field Crops _____ 186 Williams Hall; Rt. 1, Box 71, Cary, N. C.	324	TE 2-6247
Bernat, Sophia E., Stat. Clerk, Ag. Economics _____ 210 Patterson; 1835 W. Smallwood Drive	491	VA 8-3244
Bernreuter, Don L., Instructor, Mechanical Engr. _____ 323 Broughton; 3404 Ruffin St.	203	—
*Berrier, Richard N., Res. Assistant, Tex. Res. _____ 113 Nelson Tex. Bldg.; 820 Brent Road	576	TE 4-0142
*Berry, Ernest B., Asst. Prof., Textiles _____ 206 Nelson Textile Bldg.; RD 1, Raleigh, N. C.	419	TE 4-4492
*Best, Anne S., Statistical Clerk, Ag. Econ. _____ 210 Patterson Hall; 2402 Clark Avenue	491	TE 3-7769
*Best, Juanita K., IBM Key punch Operator, National Sci. Reg. _____ Rm. 101, 400 Oberlin Rd.; 708 Barksdale Drive	265	TE 4-0543
*Best, Laeta P., Secretary, Ag. Ext. _____ 301 Ricks; 2311 Van Dyke Avenue	388	TE 3-5064
Bhattacharyya, Bibhuti B., Assoc. Statistician, Stat. _____ 12 Patterson Hall; 40 Dixie Drive	386, 387	TE 4-0816
*Bigelow, Richard H., Asst. Prof., Civil Engr. _____ 444 Mann; 5408 Western Blvd.	303	TE 4-4591
*Biggerstaff, Lucille G., Addressing Machine Oper., Alumni _____ 106 Alumni Bldg.; 2809 Bardwell Road	252, TE 3-1010	TE 4-3881
Billingsley, E. Page, Chief Clerk, M & O _____ 100 Morris Bldg.; 2008-D Smallwood Drive	328	TE 4-5079
*Bireline, George L., Asst. Prof., Design _____ 203 Brooks Hall; 1020 W. South St.	547	TE 3-8033
*Bishir, John W., Instructor, Mathematics _____ 216 Tompkins; 376 Wilmot Drive	228	VA 8-3069
*Bishop, Charles E., Professor and Head, Agr. Econ. _____ 216 Patterson Hall; 727 Runnymede Rd.	308	TE 3-4789
*Bishop, Dessie C., Secretary, Y. M. C. A. _____ King Religious Center; 8 Bagwell Avenue	202	TE 2-0672
*Blackburn, Thelma P., Steno., Radiation Safety _____ 200 Nuclear Science Bldg.; 3005 Leonard Street	575	TE 4-3110
*Blackwood, Louise R., Accounting Clerk, Adm. _____ 101-A Patterson Hall; Rt. 3, Chapel Hill, N. C.	369	8-5587
*Blackwood, Worth T., Jr., Chief Security Officer, M & O _____ 113 Morris Bldg.; 310 Angier Avenue	451	TE 3-0317
*Blake, Carl T., Agronomy Ext. Spec., Ag. Ext. _____ 152 Williams; 5133 Jeffries Rd.	263	TE 2-5700
*Blalock, Thomas Carlton, In charge, Dairy Ext., Ag. Ext. _____ 102 Polk; 1315 Brooks Avenue	321, 277	TE 4-1892
*Blalock, Thomas J., Asst. Prof., Chemistry _____ 103 Withers Hall; 3504 Churchill Road	266	TE 3-9291
*Blanchard, Eleanor L., Darkroom Technician, Ag. Inf. _____ 3 Ricks; 605 Buck Jones Road	330	TE 3-2145
*Bland, Billie P., Steno., Textile Res. _____ 106 Nelson Tex. Bldg.; 2812 Anderson Drive	273	TE 4-2142
*Blumer, Thomas N., Professor, An. Ind. _____ 215 Polk Hall; 350 Meredith Street	276, 326	TE 4-3593
Blaylock, Loyce, Steno., Education _____ 118 Tompkins; 710 McCulloch Street	311, 256	TE 2-7038
*Block, William J., Assoc. Prof., Hi. & Pol. Sci. _____ 109 Winston Hall; 821 Ravenwood Drive	356	TE 4-8353
*Blow, W. L., Asst. Prof., Poultry _____ 205 Scott Hall; 304 Furches Street	352	TE 3-6806

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Name, Title, Department, and Address	Office Phone	Res. Phone
*Blum, George B., Jr., Asst. Prof., Ag. Engr. 10-J Tompkins Hall; 1408 Walnut Trail	439	TE 4-1578
*Boal, Robert S., Marketing Specialist, Ag. Ext. 209 Patterson; 121 W. Sycamore, Wake Forest, N. C.	567	EX 5-3236
Boardman, Elizabeth G., Res. Asst., Field Crops 102 Williams Hall; 2402 Clark Avenue	222	TE 2-8224
*Bogdan, John F., Professor & Head, Tex. Res. 51 Nelson Textile Bldg.; 2120 Ridge Road	414, 293	TE 2-2744
*Boland, Cathryn W., Typist, College Ext. 1911 Building; 1309 College Place	260	TE 4-8807
Bolen, Patricia J., Secretary, Chemistry 113 Withers Hall; 123 Brooks Avenue	297	TE 2-8764
*Bolick, Harold G., Grounds Superintendent, M & O 1 Morris Bldg.; 5007 Western Blvd.	234	VA 8-5791
†Booker, Dorothy M., Res. Asst., Forestry 254 Kilgore; 503 W. Aycock Street	270	TE 3-1780
*Boone, Ruth S., Steno., Boarding Leazar Hall; 3602 Leonard Street	TE 3-4825-6	TE 4-2584
*Booth, Byllye M., Typist, Textiles 107 Nelson Textile Bldg.; 524 Highland Avenue	562	—
*Bostian, Carey H., Professor, Genetics 348 Gardner Hall; 1000 Lake Boone Trail	542	TE 2-3600
*Bostian, Frank K., Chaplain, Religious Activities 814 Dixie Trail; 1001 Canterbury Road	TE 3-8407	VA 8-5004
*Bostian, Gretchen E., Chemist, Tex. Res. 21 Nelson Textile Bldg.; Q-217 Married Student Housing	576	—
*Bostian, Pauline V., Acct. Clerk, Textiles 108 Nelson Tex. Bldg.; 4833 Fayetteville Road	558	VA 8-5236
*Bowen, Henry D., Assoc. Prof., Ag. Engr. 205 Ag. Engr. Bldg.; 3400 Octavia Road	479	TE 4-5479
Bowers, Henry, Asst. Director of Student Activities, Stud. Act. 206 Holladay Hall; 2004 Buckingham Road	215	VA 8-2969
*Bowery, Thomas G., Res. Prof., Field Crops Room 2, Withers Hall; 3435 Leonard Street	337	TE 3-4781
*Boyd, Ruth P., Res. Asst., An. Ind. 111 Polk Hall; 923 Tower Street	268	TE 3-6215
*Boyet, Evelyn T., Res. Asst., An. Ind. 210 Polk Hall; 3015 Leonard Street	326	TE 2-8279
*Boykin, Wayne, Typist Clerk, Ag. Inf. 15 Ricks Hall; 50 W. Dixie Dr.	254	—
*Bradford, Edward H., Assoc. Prof., Tex. Res. 325 Nelson Tex. Bldg.; 4120 Galax Drive	413	TE 4-0533
*Bradford, Garnett L., Instructor, Ag. Econ. 210 1911 Building; 721 Shelley Road	492	TE 4-0940
*Bradford, Laura J., Secretary, Statistics 2 Patterson; 721 Shelley Road	386, 387	TE 4-0940
Bramer, Charles R., Prof., Civil Engr. 134 Mann; 2729 Oberlin Road	391	TE 3-0058
*Brandt, Bartholomew B., Prof., Zoology 164 Gardner; 3218 Bedford Avenue	239	TE 3-7009
*Brant, Dorothy L., Instructor, Mathematics 205 Tompkins; 2404 Beechridge Rd.	226	TE 2-7791
*Brantley, Vester Robertson, Asst. Prof., Mathematics 209 Tompkins Hall; 152 Jones-Franklin Rd.	226	TE 3-0022
*Brantly, Eugene P., Asst. Prof., Civil Engr. 340 Mann Hall; 4209 Galax Drive	303	TE 2-9707
*Braswell, Charles C., Buildings Superintendent, M & O Morris Bldg.; 809 Starmont Dr., Durham, N. C.	234	— 8-3728

*Married

†Widowed

Name, Title, Department, and Address	Office Phone	Res. Phone
*Braswell, Edward E., Draftsman, Ag. Engr. 300 Mangum; 900 Merrie Road	342	VA 8-4676
*Braswell, Marguerite, Lab. Tech., Tex. Res. 48 Nelson Textile Bldg.; 811 Beverly Drive	416	TE 3-0867
*Brawley, Frances O., Accounting Clerk, Ag. Exp. Station 101-A Patterson Hall; 2620 Kilgore Avenue	369	VA 8-6379
*Bredenberg, Paul Arnold, Assoc. Prof., Phi & Rel. 204 Peele Hall; 1007 Carlton Avenue	374	TE 4-5352
*Brett, C. H., Assoc. Prof., Ent. 239 Gardner Hall; 1425 Dixie Trail	384	TE 2-4596
Breunig, John M., Catholic Chaplain, Religious Activities King Religious Center; 218 Pittsboro St., Chapel Hill, N. C.	202	9-2581
*Brewbaker, Carey L., Football Coach, Athletics 130 Coliseum; 810 Daniels St.	TE 2-6934	TE 3-4131
Brewer, Hazel, Secretary, Ag. Ext. 128 Williams; 304 Capital Apts.	263	TE 4-7068
*Brickell, Robert V., Instructor, Soc. Studies 211 Winston; 907 Marlborough	200	TE 3-9578
*Bridge, Gladys G., Clerk, Reg. 10 Holladay Hall; Wake Forest, N. C.	489	EX 5-3525
Briggs, Mary M., Steno., Field Crops 156 Williams Hall; G-1 Raleigh Apts.	324	TE 2-7156
Briggs, Neill S., Secretary, College Union 216 College Union; 128 Groveland Avenue	TE 4-7310	TE 2-1030
*Bright, Richard, Assoc. Prof., Chemical Engr. 107 Riddick; Rt. 7, Raleigh, N. C.	309	TE 3-3331
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*Dobbins, Grover C., Dist. Ag. Agent, Ag. Ext. _____ 303 Ricks; 3428 Wade Ave.	388	TE 4-9026
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*Dunston, Deport, Mechanic, Ag. Engr. _____ Ag. Engr. Bldg.; Method, N. C.	484	TE 4-4243
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*Poole, Nancy R., Key Punch Oper., An. Ind. 9 Patterson; 2810 Wayland Dr.	387	TE 3-1382
*Poovey, Vivian D., Secretary, Ag. Education 121 Tompkins; 15 Trailer Village, Wake Forest, N. C.	346	—
*Pope, Daniel T., Res. Assoc. Prof., Hort. 216 Kilgore; 2710 Wayland Dr.	318	TE 3-1066
*Porter, Jack, Instructor, English 221 Winston; 1514 Ashburton Rd.	325	TE 4-3013
*Porter, Joseph A., Jr., Assoc. Prof., Textiles 226 Nelson Bldg.; 225 Brooks Ave.	417	TE 4-3383
*Porter, Mary T., Secretary, College Extension Div. 121 1911 Bldg.; 3604 Cranston Rd.	260	TE 4-3780
*Porter, Ruth F., Steno., Ag. 111 Patterson; 2412 Van Dyke Ave.	331	TE 4-7067
*Poston, Birdie M., Clerk, Ag. 111 Patterson; UK-40 Vetville	362	TE 4-5390
*Poteat, Laurence E., Instructor, Mineral Industries 104 Page; 5011 Dunbar Rd.	249	VA 8-6566
Powell, Anne H., Secretary, Mech. Engr. 211 Broughton; 1027 St. Mary's St.	246	TE 3-8706
*Powell, Ben C., Mechanic, Ag. Engr. Ag. Engr. Bldg.; Rt. 2, Clayton, N. C.	484	—
*Powell, Graham C., Printer, Print Shop Print, Shop; Rt. 1, Wake Forest, N. C.	TE 3-4151	39 5-2224
*Powell, Leon, Lab. Tech., Tex. Res. 140 Nelson Textile Bldg.; 908 Braden St.	561	TE 3-3836
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*Preston, Marjorie C., Secretary, Ag. Ext. 220 Patterson; 2708 Clark Ave.	291	TE 4-3237
*Preston, Richard J., Jr., Dean, School of Forestry 160 Kilgore; 3201 Churchill Rd.	270, 282	TE 2-8864
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*Proctor, Edwin A., Spec., Ag. Ext. 209 Patterson; Box 95-A Lake Forest, Rt. 1, Raleigh, N. C.	567	VA 8-9835

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*Rabb, R. L., Assoc. Prof., Ent. 229 Gardner; 204 Furches St.	384	TE 4-8000
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*Ragland, Eloise R., Steno., Tex. Res. 50 Nelson Bldg.; 2700 Wayland Dr.	414	TE 2-9539
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*Ramsey, Harold A., Res. Assoc. Prof., An. Ind. 302 Polk; 106 Ralph Dr., Cary, N. C.	241, 574	HO 7-9401
*Randall, Glenn O., Prof., Hort. 126 Kilgore; 901 Canterbury Rd.	418	TE 3-9643
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*Rankin, William Harlow, Main Desk Supv., College Union College Union; 1413 Scales St.	TE 4-7318-9	TE 4-8409
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*Rawls, Horace Darr, Assoc. Prof., Soc. & Ant. 201 Peele; 3021 Banbury Rd.	374	TE 2-0616
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*Reid, Elbert, Assoc. Editor, Ag. Inf. _____ 311 Ricks; 2621½ St. Mary's St.	457	TE 3-2147
*Reid, James Paul, Jr., Lab. Tech., Tex. Res. _____ 21 Nelson Tex. Bldg.; 203 Parkland Dr.	288	TE 2-5046
*Reid, Preston H., Assoc. Prof., Soils _____ 386 Williams; 819 Merrie Rd.	363	TE 4-4606
*Reid, Willis A., Prof., Chemistry _____ 113 Withers 107 Withers; 1439 Dixie Trail	297, 266	TE 2-6016
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Rhodes, Anna L., Secretary, Ag. Econ. _____ 201 Patterson; 201½ Park Ave.	359	TE 2-7124
*Rhodes, Sallie C., Res. Asst., Poultry _____ 109 Scott; 1100 Popular Ave., Garner, N. C.	366	EM 2-4521
*Rice, Evelyn K., Secretary, Zoology _____ 355 Gardner; 319 Morrison Ave.	261	TE 2-2097
*Rice, James T., Instructor, Wood Tech. _____ 256 Kilgore; 2304 Van Dyke Ave.	406	TE 3-5653
*Rice, John C., Director, N. C. Crop Improvement Assoc. _____ 193 Williams; 109 N. Lord Ashley Rd.	TE 4-7542 & 207	TE 3-2024
*Rice, Pansy, Steno., An. Ind. _____ 312 Polk; 310 Furches St.	206	TE 3-4498
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*Rich, M. Elizabeth, Key Punch Oper., Statistics _____ 5 Patterson; 620 Glascocock St.	386, 387	TE 3-7664
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Richardson, Frances M., Res. Assoc. Prof., Engr. Res. _____ 206 Riddick; G-4 Raleigh Apts.	357, 301	TE 4-4821
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*Robison, Odis W., Asst. Prof., An. Ind. 111 Polk; 603 Powell Dr.	305	TE 2-2572
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*Rust, Paul J., Assoc. Prof., Psychology 111-A Tompkins; 2500 Poole Rd.	365	TE 4-1696
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*Schrum, Nancy K., Secretary, Ent. 232 Gardner; 3046 Farrior Rd.	384	VA 8-2140
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*Senger, Marvin E., Dairy Ext. Spec., Ag. Ext. _____ 104½ Polk; 1501 Franklin Rd.	277	TE 4-2457
*Senter, C. T., Shipping Receiving Dept., College Stores _____ New SSS Bldg.; 5407 Fayetteville Rd.	511 & TE 3-1936	TE 2-4034
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*Shahdan, Peter, Asst. Prof., Math. _____ 204 Tompkins; 624 Grove Ave.	226	TE 2-1061
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*Shaw, Archie W., Res. Asst., Field Crops _____ 139-A Williams; 1435 Beaver Dam Rd.	222	—
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Shaw, Mary S., Steno., An. Ind. _____ 216 Polk; 304 Hillcrest Rd.	276, 326	TE 2-4683
*Shaw, Wilma J., Instructor, Chemistry _____ 102 Withers; 3913 Vesta Dr.	266	TE 4-1060
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*Smart, William G., Assoc. Prof., Statistics 1-A Patterson; 311 Meredith St.	386, 387	TE 3-4135
*Smart, William W. G., Jr., Res. Assoc. Prof., An. Ind. 309 Polk; 311 Meredith St.	241, 574	TE 3-4135

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*Smith, Frank H., Res. Assoc. Prof., An. Ind. 315 Polk; 2506 Stafford Ave.	241, 574	TE 2-6798
*Smith, George W., Asst. Director, Ag. Ext. Service 108 Ricks; 2213 Dixie Trail Ext.	213	TE 2-2894
*Smith, Harriet H., Steno., Soils 226 Williams; 104 Horne St.	345	TE 4-0964
*Smith, James W., Instructor, An. Ind. 105 Polk; 5252 Vann St.	305	TE 3-8801
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*Smith, J. C., Instructor, Civil Engr. 448 Mann; 2403 Grant Ave.	391	VA 8-4307
*Smith, J. McCree, College Engr. & Director, M & O 101 Morris; Rt. 1, Cary, N. C.	328	TE 2-8466
*Smith, Judy S., Steno., Alumni Alumni Bldg.; Denton Trailer Ct., Cary, N. C.	TE 3-1010 & 252	—
*Smith, Linda C., Steno., Textile Res. 50 Nelson Textile Bldg.; Apt. L-24, Married Stu. Housing	414	VA 8-4027
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*Smith, Mary Anne, Lab. Tech., Tex. Res. 48 Nelson Bldg.; Rt. 3, Wake Forest, N. C.	416	EX 5-3082
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Apple, Vance Alton	SR		1709 Hillsboro	Te-3-6901	Rt. 1, Box 24, Gibsonville, NC
Apple, Warren D.	FR	4416	121 Owen	Te-2-9473	Rt. 1, Gibsonville, NC
Apte, Dattatraya P.	GR	5781	2900 Delta Dr.		33/3 Erandawna Poonia 6, India
Archer, Benjamin D.	FR	4292	330 Turlington	Te-2-9192	2517 Commonwealth Ave., Charlotte, NC
Archer, David McCall	SO	4206	109 Turlington	Te-4-9279	1320 Palm Ave., Jacksonville, Fla.
Archie, Joseph F., Jr.	GR		937 St. Mary's St.	Va-8-5578	937 St. Mary's St., Raleigh, NC
Ardito, Nicolas B.	GR	5073	State College Stat.	Va-8-4193	Box 4339, Panama, Panama
El Aref Magdi Mourad		5702	State College Stat.		S. Daise, Raleigh, NC
Aray, James E.	JR	15349	320-C Bragaw	Te-4-9253	412 Heilig Ave., Salisbury, NC
Arey, Jeffrey M.	FR	3708	108 Becton	Te-2-9256	P.O. Box 644, Statesville, NC
Armistead, Eugene W., Jr.	FR	4718	251 Tucker	Te-2-9387	10 Cisco Rd., Asheville, NC
Armstrong, Bernard F.	FR	4169	303 Alexander	Te-2-9340	7037 Lawyers Rd., Charlotte, NC
Armstrong, Law Lamar	GR		914 Canterbury Rd.	Te-3-1481	914 Canterbury Rd., Raleigh, NC
Armstrong, Robert P.	SR	3328	128 Bagwell	Te-4-9219	Box 236, Bladenboro, NC
Arnas, Ozer Ali	GR		213 Alumni House		Rumelhisar, Istanbul, Turkey
Arnette, Francis Du	SO	4642	131 Tucker	Te-2-9388	27 Hillendale, Asheville, NC
Arnold, Jerry F.	SR		203 Groveland Ave.	Te-4-3901	Spruce Pine, NC
Arnold, Millard T.			901 Wilmington Terr.		901 Wilmington Terrace, Raleigh, NC
Artacott, James Lloy	FR		2314 Hillsboro		P.O. Box 876, Troy, NC
Artasanchez, Luis M.	FR	4537	322 Owen	Te-4-9836	22 Oriente 1413 Puebla, Mexico
Arthur, Benjamin C.	SO	3513	113 Syme	Te-2-9288	Washington, La Grange, NC
Arthur, James Harrison, Jr.	SR	15313	302-D Bragaw	Te-4-9253	231 Summit Ave., Mt. Holly, NC
Arthur, Karl A.	FR	4457	167 Owen	Te-2-9115	344 Lincolnton Rd., Salisbury, NC
Artinano, Benito	FR	4571	360 Owen	Te-4-9836	Aptdo 4353, San Jose, Costa Rica
Artman, Joel D.	JR		211 Park Ave.		Box 194, Morris, Tenn.
Asbury, Clayton G.	SR		Apt. 6, St. Mary's		1105 Grace St., Wilmington, NC
Ashar, Vijay G.	GR	5797	270 3/4 Clark Ave.		Bombay, India
Ashburn, Conrad C., Jr.	FR	3549	217 Syme	Te-2-9150	2400 Rosewood Ave., Winston-Salem, NC
Ashby, Carlton S., Jr.	FR	3367	301 Bagwell	Te-4-9219	Rt. 1, Box N-56, Havelock, NC
Ashford, Samuel B.					23334 Glascock St., Raleigh, NC
Ashley, Perlie G.	SO	15040	121-D Bragaw	Te-2-9129	101 Morris Cir., Edenton, NC
Ashley, William W.	JR	15126	313-C Bragaw	Te-4-9179	Box 308, Whiteville, NC
Askew, Louriv B., Jr.	FR	4637	126 Tucker	Te-2-9388	2231 Comellia Dr., Wilmington, NC
Athearn, Donald C.	FR	4441	150 Owen	Te-2-9115	36 Devis Ave., Newport News, Va.
Atkinson, Albert K.	GR	5985	State College Stat.	Te-3-1877	6 EPOer St., Alexandria, Egypt
Atkinson, Marion W.	SR	15216	104-B Bragaw	Te-2-9180	Rt. 2, Box 26-B, Elizabethtown, NC
Atkinson, Russell G.	FR	4760	329 Tucker	Te-4-9739	Marion, SC
Atwater, Henry F.	GR	3220	208 Gold	Te-2-9263	514 Fountain Pl., Burlington, NC
Atwood, Richard W.	SO	4511	260 Owen	Te-2-9252	719 Newton St., Winston-Salem, NC
Augepurger, David E.	FR	4552	138 Owen	Te-4-9836	905 Virginia Ave., Hamilton, Ohio
Aukel, Peter D.	SO	15101	301-B Bragaw	Te-4-6161	3527 Main St., E. Chicago, Ind.
Auld, David B.	JR		Apt. 5, 10 Enterprise		1800 Forest Rd., Durham, NC
Aultman, Larry W.	FR	4644	133 Tucker	Te-2-9388	425 5th St. N.W., Hickory, NC
Auman, William T.	FR	3762	228 Becton	Te-2-9334	Rt. 5, Asheboro, NC
Austin, Cloyd M.	FR	3501	101 Syme	Te-2-9288	Rt. 1, Box 482, Hickory, NC
Austin, James F.	SO		2609 Clark Ave.	Te-4-1384	1473-11th St. N.W., Hickory, NC
Austin, Kermit E., Jr.	FR	4207	110 Turlington	Te-4-9279	111 Finch St., Clinton, NC
Auten, Jerry P.	FR	4452	161 Owen	Te-2-9-473	Rt. 5, Charlotte, NC
Avant, Alfred L.	SO	4573	362 Owen	Te-4-9300	Box 828, Red Springs, NC
Avent, James K., Jr.	SR		308 Horne St.	Te-3-6697	607 S. Howard Cir., Tarboro, NC
Avent, Raymond A.	FR	3120	202 Fourth	Te-2-9159	11 Fern Dr., Newport News, Va.
Avent, Thomas E.	SR	3231	131 Becton	Te-2-9256	Rt. 2, Faison, NC
Avera, Roy G.	SR	15203	425-B Bragaw	Te-3-5084	8111 Berkley Dr., Houston 17, Tex.
Averett, Philip M.	FR	4188	235 Alexander	Te-2-9349	Box 122, Salemburg, NC
Avery, Ernest B.	FR	3255	207 Welch	Te-2-9119	Rt. 1, Box 127, New Bern, NC
Ayala, Clemente Hector	GR	3229	305 Gold	Te-2-9263	Calle Trujillo No. 6, Mariperez, Caracas, Venezuela
Aycock, Charles B.	SR	15254	124-D Bragaw	Te-2-9180	Lilesrille
Aycock, Marvin K., Jr.	GR		507 Grove Ave.	Va-8-5263	Rt. 2, Warrenton, NC
Aycock, Nelson W.	FR	3704	104 Becton	Te-2-9256	1109 Edgerton St., Goldsboro, NC
Aycock, Vernon Stephen	JR	15370	404-B Bragaw	Te-4-9754	Box 30, Stantonsburg, NC
Aycock, Wayne M.	SR	3802	334 Becton	Te-2-9372	2506 E. Lexington Ave., High Point, NC
Aycoth, Edward D.	FR	4701	230 Tucker	Te-2-9387	3116 Morson St., Charlotte, NC
Ayers, Grant R., Jr.	FR	3232	123 Bagwell	Te-4-9219	South Water, Boone, NC
Ayres, James J.	JR	4501	250 Owen	Te-2-9252	703 Anneshe Rd., Balto, Md.
Ayvue, William H., Jr.	JR		1227 Duplin Rd.	Te-3-9128	111 Norris Rd., Alapocas, Wilmington, D.

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Baare, Frederick J., Jr.	FR	4143	214 Alexander	Te-4-9746	408 Hill, Warsaw, NC
Baber, Dale M.	SO	3397	331 Bagwell	Te-4-9151	200 Prince George Ave., Hopewell, Va.
Badgett, Roy H.	SO	3602	6 Syme	Te-2-9421	303 W. Guilford, Thomasville, NC
Baar, Richard T.	SO		1004 Nichols Dr.	Te-4-1372	29 Dover St., Toms River, NJ
Baggett, Jasper L.		3358	226 Bagwell	Te-2-9131	Salisbury, NC
Baggett, Kenneth Rogers	SR		215 Glenwood Ave.	Te-2-0044	215 Glenwood Ave., Raleigh, NC
Baggett, Samuel M.					524 Charlotte Ave., Sanford, NC
Bagley, Worth W.	SR		2604 Clark Ave.	Te-4-6064	Rt. 2., Kenly, NC
Bagully, Alan M.	SO		215 Woodburn Rd.	Te-2-6159	3025 Marlborough Rd., Charlotte, NC
Bailey, Elbert B.	FR	4216	119 Turlington	Te-4-9279	103 Elmwood, Williamston, NC
Bailey, Paul L.	JR	15327	310-B Bragaw	Te-4-9253	1015 Chovan Ave., Lynchburg, Va.
Bailey, Samuel T.	FR	3586	322 Syme	Te-2-9222	Wendell, NC
Bailey, Thomas Bert			Watauga		Rt. 4, Box 424, Greensboro, NC
Bailey, William	SR	15163	405-C Bragaw	Va-8-6547	152 Westhampton, Danville, Va.
Baker, Bernard A.	JR		2702 Bedford Ave.		30 Spruce St., Marcus Hook, Pa.
Baker, Carson			209 Alumni Bldg.	Te-2-9322	1699 Ivey St., Roanoke Rapids, NC
Baker, Donald W.	FR	3501	101 Syme	Te-2-9288	Rt. 1, Belvidere, NC
Baker, Everett A.	FR	4430	136 Owen	Te-2-9473	Camden Road, Wadesboro, NC
Baker, Henry Ray	SO	15250	122-D Bragaw	Te-2-9180	1127 Arrington Ave., Winston-Salem, NC
Baker, Junior Ora, Jr.	SR		Apt. I-23, Married Stu. Housing	Te-2-4856	Apt. I-23, Married Stu. Housing, State College St.
Baker, Larry Franklin	FR	4178	315 Alexander	Te-2-9349	Rt. 5, Reidsville, NC
Baker, Neil D.	SR	4653	145 Tucker	Te-2-9388	Box 334, Rowland, NC
Baker, Froston Gwyn, Jr.	GR		995 Harp Terr.	Va-8-2848	P.O. Box 11, Drexel, NC
Baker, Vernon B.	FR	4411	116 Owen	Te-2-9437	1525 Cypress St., Rocky Mount, NC
Balcazar, Serafin H.	FR	4322	322 Owen	Te-4-9836	3 Pontiente 1307 Puebla Rue., Mexico
Baldwin, Cullen K.	SO		5 Rosemary St.	Te-2-9425	1000 Chester St., Durham, NC
Baldwin, Donald F.	FR	15060	205-D Bragaw	Te-2-9185	89 Maney Av., Asheville, NC
Baldwin, Frederick F.	SR	7	21 Enterprise St.	Te-4-2515	Clarkton, NC
Baldwin, George W.	JR	4307	107 Berry	Te-2-9363	Box 97, Vase, NC
Baldwin, John Kelly	SR	3038	302 Watauga	Te-2-9488	Box 142, Abbottsburg, NC
Baldwin, Von M.	SR		RFD 1, Cary	Te-4-7861	508 S. Miami Blvd., Durham, NC
Baldwin, Wayne J.	FR	3379	313 Bagwell	Te-4-9151	127 Yorktown Dr., Wilmington, NC
Bales, Nathan K.	SR	3270	310 Welch	Te-2-9119	607 Lookes St., High Point, NC
Ball, Carl M.	FR	4735	302 Tucker	Te-4-9739	1600 Shepard St., Morehead City, NC
Ball, David G., Jr.	SR		419 Harding St.	Te-2-8010	419 Harding St., Raleigh, NC
Ball, Elmer C.	FR	4175	312 Alexander	Te-2-9349	R.F.D. 1, Elkin, NC
Ball, Kirby Lee	FR	4351	6 Stadium		Pineywood Rd., Thomasville, NC
Ball, William Roy	SR		College View Tr. Pk.		Rt. 2, Burgaw, NC
Ball, William S.		30	Rt. 3, Henderson, NC		Rt. 3, Henderson, NC
Ballard, Gerald B.	SO	3391	325 Bagwell	Te-4-9151	420 New Haw Cir. Rd., Asheville, NC
Ballard, Roger W.	PROF		806 N. Blount St.	Te-4-1172	420 New Haw Cr. Rd., Asheville, NC
Ballentine, Kinchen W.	GR		1511 1/2 St. Mary's St.		Old Post Rd., Erwin, NC
Ballew, James T.	FR		216 Park Ave.	Te-4-8821	216 Park Ave., Raleigh, NC
Balta, Yalman	JR	5756		Te-2-7013	Menekse 23/3, Ankara, Turkey
Banfelter, Gary J.	FR	4362	17 Stadium		611 Terrace Blvd., New Hyde Pk., NY
Bankett, Johnie Ray	SR	15084	219-A Bragaw	Va-8-5905	Rt. 4., Salisbury, NC
Bankhead, Jerry L.	SO	15294	220-A Bragaw	Te-4-9123	604 E. Hamlet Ave., Hamlet, NC
Banks, Harvey T.	SO	15363	402-A Bragaw	Te-4-9754	Rt. 1, Newton, NC
Banks, Herman L., Jr.	FR	3213	113 Becton	Te-2-9256	308 Brentwood Ave., Jacksonville, NC
Banks, Norman Earl	GR		2402 Clark Ave.	Te-3-0909	1704 Tryon Rd., New Bern, NC
Banks, Richard T.			Apt. O-11, Married Stu. Housing		220; Henderson Ave., New Bern, NC
Banner, William P.	SO		11 Maiden Lane	Te-3-6901	308 S. Elam Ave., Greensboro, NC
Bannerman, Carl J.	SR		2316 Hillsboro	Te-4-5452	Rt. 1, Burgaw, NC
Bannerman, William H.	JR	15247	122-A Bragaw	Te-2-9180	Box 115, Carolina Beach, NC
Barbee, John L.	SO		614 Kirby St.	Te-4-5071	Yaupon Village, Southport, NC
Barbee, Patricia Kay	FR		103 Enterprise St.	Te-2-7652	337 Miller St., Winston-Salem, NC
Barbee, Willard H., Jr.	SO	6068	2101 St. Mary's St.	Te-2-1911	2101 St. Mary's St., Raleigh, NC
Barber, Mallory S.	JR	3600	4 Syme	Te-2-9421	Rt. 2, Scotland Neck, NC
Barber, Simon Wayne	FR	3800	332 Becton	Te-2-9372	Box 439, Jamesville, NC
Barber, Tollie C.	SO	3228	304 Gold	Te-2-9263	Country Club Rd., Mt. Airy, NC
Barbot, James C.	SR		D-301 Boylan Apts.		2959 Park Ave., Wilmington, NC
Barbour, Jesse O., Jr.	SR		U-7 Raleigh Apts.		Box 801, Morganton, NC
Barbour, Max O'Brien	FR			Te-4-2957	106 E. North St., Raleigh, NC
Barbour, William A.	FR	4345	13 Berry	Te-2-9350	406 W. Main St., Benson, NC
Bard, Ronald S.	SO		304 E. Park Dr.	Te-2-7638	100 W. Euclid Pky., Asheville, NC
Barefoot, Bright H.	SR		2134 Mayview Rd.	Va-8-3383	2134 Mayview Rd., Raleigh, NC
Barefoot, Richard L.	SO		2612 Clark Ave.	Te-2-9484	1321 Heather Lane, Charlotte, NC
Barger, William D.	SO				Box 1152, Statesville, NC
Barham, William R.	FR	4795	43 Tucker	Te-2-9186	Rt. 1, Zebulon, NC
Barham, Samuel A.	SR		502 Tilden St.	Te-2-5444	2345-25 St. S.E., Washington 20, DC
Barker, Bennie Lee					Box 186, Warrensville, NC
Baker, Glenn Rex	JR		Hort. Dept.	Ext. 418	Rt. 1, Roaring River, NC
Barker, Jeter O., Jr.	JR	5082	400-B Chamberlain St.	Va-8-5665	400-B Chamberlain St., Raleigh, NC
Barkley, Fred Joe	FR	4684	212 Tucker	Te-2-9387	R.F.D. 2, Lincolnton, NC
Barksdale, Robert G.	JR	5566	State College Stat.	Te-4-8227	1503 St. Mary's St., Raleigh, NC
Barlowe, Russell G.	JR		124 Bagwell Ave.	Va-8-5928	Box 107, Oxford, NC
Barnes, Alonzo M.	SO	3345	213 Bagwell	Te-2-9131	6156 Argyle St. Philadelphia 11, Pa.
Barnes, David C.	JR	4712	243 Tucker	Te-2-9387	126 S. Sharon Rd., Lenoir, NC
Barnes, Douglas R.	SO	15363	402-A Bragaw	Te-4-9253	Box 555, Angier, NC
Barnes, Elliott B., Jr.	JR	3722	122 Becton	Te-2-9256	R.F.D. 1, Corapeake, NC
Barnes, James E.	JR		2708 Everett Ave.	Te-2-7013	2708 Everett Ave., Raleigh, NC
Barnes, John S.					
Barnes, Lawrence D.	SR		2410 Van Dyke Ave.	Va-8-2926	1708 Peachtree Rd., Atlanta, Ga.
Barnes, Lehman W., Jr.	GR		2350 Bernard St.	Te-2-6716	2350 Bernard St., Raleigh, NC
Barnes, Ray					R.F.D. 5, Box 447, High Point, NC
Barnette, Fred A.	FR		2612 Clark Ave.	Te-2-9484	2210 Sharon Rd., Charlotte, NC
Barnhardt, Paul R.	FR	4502	251 Owen	Te-2-9252	Rt. 3., China Grove, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Barnhill, Alton James, Jr.	SR		103 Enterprise St.	Te-2-7652	R.F.D. 1, Bunnlevel, NC
Barnhill, Guilford S.	FR	3374	308 Bagwell	Te-4-9151	125 Dundee Rd., Fayetteville, NC
Barnhill, James T., Jr.	FR	4216	119 Turlington	Te-4-9279	105 St. Paul St., Durham, NC
Barnhill, Michael V.	SO	4145	216 Alexander	Te-4-9746	Rt. 1, Battleboro, NC
Barnhill, Robert K.	SO	15319	306-B Bragaw	Te-4-9256	Lakewood Pines, Greenville, NC
Barr, Anthony J.	SO	101-B	101-B Chamberlain St.		752 Springfield Ave., Summit, NJ
Barr, Russell W.	JR		604 S. Boylan Ave.		W. Jefferson, NC
Barrett, Bessie G.	SO	4253	225 Turlington	Te-2-9297	112 Peach St., Shelby, NC
Barrett, Fred S., Jr.	FR	4581	47 Owen	Te-2-4581	Box 153, Oak City, NC
Barrett, Rollin P.	SR		2405 Grant Ave.	Te-4-8961	2500 Grant Ave., Raleigh, NC
Barrier, Cleveland L.	SR	15144	321-D Bragaw	Te-4-9179	Rt. 1, Mt. Pleasant, NC
Barriere, Diane F.	FR		119 Brooks Ave.	Te-3-6428	2219 Harden Cir., Hendersonville, NC
Barringer, Larry F.	SR		16 Furches St.	Te-2-5323	72-27th St. N.W., Hickory, NC
Barringer, Luther B.	FR	3565	301 Syme	Te-2-9222	Box 77, Richfield, NC
Barringer, Thomas L.	SO	15385	412-C Bragaw	Te-4-9754	-07 Desota Ave., Manapolis, NC
Barry, Raymond E.	SO	3253	205 Welch	Te-2-9119	738 W. Sumter, Shelby, NC
Bartelt, Richard T.	FR	4549	395 Owen	Te-4-9836	1368 Hilltop Rd., Charlotteville, VA
Bartholomew, Rudolph T., Jr.	FR		Rt. 5, Raleigh	Te-3-7833	Rt. 5, Raleigh, NC
Bartholomew, Norman E.	SR			Te-3-8833	3902 Memory Lane, Raleigh, NC
Bartlett, Paul T.	FR	3323	123 Bagwell	Te-4-9219	204 Hillcrest Cir., Boone, NC
Barwick, Allen J.	FR	15091	221-D Bragaw	Va-8-9590	Rt. 2, Grifton, NC
Basden, Bruce K.	SO		104 Dixie Tr.		Dudley, NC
Bason, Jerry T.	SO	15072	211-D Bragaw	Te-2-9185	707 Brookgreen Terr., Graham, NC
Bass, Clemon E., Jr.	SO	3774	306 Becton	Te-2-9372	Badham Rd., Edenton, NC
Bass, James H.	SR	15030	117-B Bragaw	Te-2-9-129	P.O. Box 81, Louisburg, NC
Bass, Joseph Bickett	JR	3221	209 Gold	Te-2-9263	3693 Yale Ave., Winston-Salem, NC
Bassett, Donald G.					2908 Liberty Rd., Greensboro, NC
Bassinger, Rolland R.	FR	3760	226 Becton	Te-2-9334	Rt. 1, Box 295, Salisbury, NC
Bassinger, Ronald L.		3760	226 Becton	Te-2-9334	Rt. 1, Box 295, Salisbury, NC
Bastida, Rodolfo J.	GR				2323 Grant Ave., Raleigh, NC
Bastida, Zebeya R.					105 Chamberlain St., Raleigh, NC
Batchelder, Charles F.	SO				R.F.D. 1, Morrisville, NC
Batchelor, Billy Joe	JR				2136 Mayview Rd., Raleigh, NC
Batchelor, James C.	SO		2136 Mayview Rd.	Te-3-8534	403 Wayne Dr., Raleigh, NC
Batchelor, William M., Jr.	SR		403 Wayne Dr.	Te-4-0665	403 Wayne Dr., Raleigh, NC
Batson, Don T.	UN		Apt. M-21, Married St. Housing	Te-4-3753	58 South St., Taylors, SC
Batson, Vernon McGreor	JR	15235	116-A Bragaw	Te-2-9180	Rt.1, Box 303, Wilmington, NC
Batten, Coy Medlin	SR	3702	102 Becton	Te-2-9256	Rt. 2, Kenly, NC
Batter, Joseph Harold, Jr.	SO		216 Hillcrest Rd.		Rt. 5, Box 251-B, Goldsboro, NC
Battista, Ello	UN		2204 Carden Place	Va-8-6552	120 Summer St., Somerville, Mass.
Batson, George O.	SO	15005	103-A Bragaw	Te-2-4129	821 Jackson St., Roanoke Rapids, NC
Batts, Clarence R.				Te-2-0795	612 Glascock St., Raleigh, NC
Batts, Maurice R.	FR	4572	361 Owen	Te-2-9836	770 Finewood Cr., Mooresville, NC
Batts, William E., Jr.	FR	4513	262 Owen	Te-2-9252	R.F.D. 4, Box 399, Wilson, NC
Baucom, Clifton P.	FR	3813	11 Becton	Te-2-9216	Rt. 2, Raleigh, NC
Baucom, Larry C.	SO	3123	205 Fourth	Te-2-9159	2715 S. Ridge Ave., Concord, NC
Baucom, Robert M.	JR	3023	205 Watauga	Te-2-9132	Box 192, Marshallville, NC
Baucom, Walter K.	SR	15312	302-C Bragaw	Te-4-9253	Rt. 1, Monroes, NC
Baucom, William Byrd	JR				Box 7491, Raleigh, NC
Bauerlein, John S.	FR	4487	232 Owen	Te-2-9410	315 East St. N., Talladega, Ala.
Baxter, Edward J., Jr.	JR		204 Park Ave.		1803 West Market, Greensboro, NC
Baxter, John D.	SR		122 Hillcrest Rd.	Te-3-0624	4510 W. Market St., Greensboro, NC
Baybay, Leon F.	JR		Apt. O-13, Married St. Housing		440 McBain Dr., Fayetteville, NC
Bayoumi, Mamdouh Ahmed		5762	College Station		13, Cairo University St., Giza, Egypt
Beach, Neil D.	FR	4660	153 Tucker	Te-2-9388	Rt. 1, Box 267, Lenoir, NC
Beaman, John R., Jr.	SO	3621	25 Syme		Rt. 5, Box 662-B, Asheville, NC
Beaman, Philip Leo	GR		Apt. H-16, Married St. Housing		Rt. 1, Walstonburg, NC
Bean, Carl N., Jr.	SR	15086	219-C Bragaw	Va-8-5905	46 Coleman Ave., Asheville, NC
Beard, Daniel C., Jr.	FR	3529	129 Syme	Te-2-9288	105 South St., Pittsboro, NC
Beard, Hoyt S.	SR	15295	220-B Bragaw	Te-4-9123	Box 384, Pittsboro, NC
Beasley, Eustace O.	GR		111 New Agr. Engr. Bldg.	Ext. 475	3606 Woodside Rd., Raleigh, NC
Beasley, James D.	SO	15358	324-D Bragaw		1603 N. Hamilton, High Point, NC
Beasley, Marvin C.	SO	4598	64 Owen	Te-2-9142	912 W. Mawney, Gastonia, NC
Beason, Roy R.	FR	4701	230 Tucker	Te-2-9387	724 Clement, Charlotte, NC
Beatty, Marvin E.	JR		1709 Hillsboro St.	Te-3-6901	703 Bradyard Dr., Charlotte, NC
Beatty, Neil McLaurin	GR		2413 Greenway Ave.	Te-4-0176	2413 Greenway Ave., Raleigh, NC
Beaver, Aubrey D.			1223 Brooks Ave.		1223 Brooks Ave., Raleigh, NC
Beaver, Junius L.	SR		921 Peace Terr.	Va-8-3437	Rt. 2, Box 108, High Point, NC
Beck, Arthur K.					Rt. 8, Box 273, Salisbury, NC
Beck, Franklin M.	FR	4348	3 Stadium		Cordova, NC
Beck, Warren Lane	FR	4129	137 Alexander	Te-2-9257	502 N. Yadin Ave., Spencer, NC
Beckham, James L.	FR	4526	309 Owen	Te-4-9300	2946 Yorkway, Baltimore 22, Md.
Becton, Francis G.	FR	4479	224 Owen	Te-2-9410	Box 380, Rt. 2, Newport, NC
Bedwell, Ira T.	FR	3796	328 Becton	Te-2-9372	Box 213, Jamesville, NC
Beeman, James F.	PROF		107 Mangum Hall	Ext. 342	1006 Barbara Dr., Garner, NC
Beeson, John E.	SO	15070	211-B Bragaw	Te-2-9185	4522 Reidsville Rd., Winston-Salem, NC
Behara, Devendra N.	JR	5797	College Station		27 Batai Road, Jamshedpur, India
Belansia, Elmo M.	JR		2710 Kilgore Ave.		Arapahoe, NC
Bell, John M.	SR	15113	307-B Bragaw	Va-8-5927	1910 Colonial Ave., Greensboro, NC
Bell, Cecil R.	FR	4154	225 Alexander	Te-4-9746	Box 195, Pilot Mtn., NC
Bell, Charles A.	SO		16 Horne St.		Apt. 3, 16 Horne St., Raleigh, NC
Bell, Charles M.	FR	3358	226 Bagwell	Te-2-9131	1233 Skyview Rd., Charlotte, NC
Bell, John S., Jr.	JR		204 Faircloth St.		204 Faircloth St., Raleigh, NC
Bell, Robert P., Jr.	JR		3414 Hillsboro St.	Te-3-4808	1430 Maryland Ave., Charlotte, NC
Bell, Ronald A.	SR			Te-4-6171	2833 Claremont Rd., Raleigh, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Bell, Thurman R.	JR		3311 Onslow Rd.	Te-2-0504	3311 Onslow Rd., Raleigh, NC
Bell, William M., III	JR		117-4 Bragaw	Te-2-9129	3130 Willow Oak Rd., Charlotte 9, NC
Beall, Ann Louise	SR	15029	119 N. Soylan Ave.	Va-8-4829	119 N. Boylan Ave., Raleigh, NC
Beallie, Vincent J., Jr.	GR			Va-8-4829	119 N. Boylan Ave., Raleigh, NC
Beltton, Jane Carolyn	GR		215 Hillcrest Rd.		314 Church St., Mt. Airy, NC
Bembow, Richard M.	JR	5667	1620 Hillsboro St.	Te-2-9531	Rt. 5, Asheboro, NC
Benfield, Charles A.	FR	4262	237 Turlington	Te-2-9297	1716 Greensboro St., New Bern, NC
Benfield, Max E.	FR	4181	318 Alexander	Te-2-9349	Rt. 5, Box 529, Hickory, NC
Benkimey, Forrest Lee	UN			Te-4-6159	Rt. 3, Box 208, Raleigh, NC
Bennett, Charles E., III	FR	4213	116 Turlington	Te-4-9279	2421 Saddle Club Rd., Burlington, NC
Bennett, Frank J.	FE	3758	224 Becton	Te-2-9334	2 Lakewood Dr., Asheville, NC
Bennett, George R.	JR		202 Freeman St.	Te-4-7727	202 Freeman St., Raleigh, NC
Bennett, Hugh J.	FR	3389	323 Bagwell	Te-4-9151	Rt. 2, Lillington, NC
Benson, Laurence W., Jr.	FR	4252	224 Turlinton	Te-2-9297	410 Church St., Grifton, NC
Bennett, Jerry Lee	SO	4204	105 Turlington	Te-4-9279	Box 666, Kartersville, NC
Bennett, Robert E.	SE			Te-2-6223	4205 Western Blvd., Raleigh, NC
Bennett, Roy Ray, Jr.	SO			Te-2-1210	2922 Barmettler, Raleigh, NC
Benson, Charles R.	JR	4288	326 Turlington	Te-2-9192	Woodleaf, NC
Benson, Baxter B., II	UN	15266	204-D Bragaw	Te-4-9123	2804 Lakeview Dr., Raleigh, NC
Benson, Franklin W.	JR	15370	404-D Bragaw	Te-4-9754	908 Anderson St., Wilson, NC
Benson, Oran M.	JR	4738	305 Tucker	Te-2-9323	Pantego, NC
Bentley, Charles S.	JR		1501 Benehan St.	Te-4-0271	3326 W. Grace, Richmond 21, Va.
Bentley, Harry Thomas	FR	4272	309 Turlington	Te-2-9192	3149 Fairfax Dr., Charlotte, NC
Benton, David R.	FR	4441	150 Owen	Te-2-9115	Box 272, Warsaw, NC
Benton, Thomas E., Jr.	FR	4492	238 Owen	Te-2-9252	517 James St., Laurinburg, NC
Berensyi, Nicholas	GR				Q-216, Married Stu. Housing, State College Station
Bergman, Lee Ray	FR	4367	22 Stadium		211 N. Queen St., Durham, NC
Berkelhammer, Alan David	FR		515 YMCA		3008 Madison, Greensboro, NC
Berkelhammer, Micha	UN		309 E. Park Dr.	Te-2-7638	300 Rockford Rd., Greensboro, NC
Bernardo, Fernando A.	GR		456 Williams Hall		80 Mabini St., Sta. Cruz, Laguna, Philippines
Bernhard, Frederick E.	SO	15143	321-C Bragaw	Te-4-9179	407 Little St., Alexandria, Va.
Bernhard, Wilhelm E., Jr.	FR	4353	8 Stadium		2840 Exeter Cir., Raleigh, NC
Bernreuter, Don Lee	GR		3404 Ruffin St.		P.O. Box 264, Tavernier, Fla.
Berrier, Bobby Lee	SO	3773	305 Becton	Te-2-9372	Box 625, China Grove, NC
Berry, Bobby Mac	SR	15170	409-B Bragaw	Te-4-9757	Rt. 5, Burlington, NC
Berry, Dewey M., Jr.	JR	4543	328 Owen	Te-4-9836	2729 1st Ave. S.W., Hickory, NC
Bess, William C., Jr.	FR	4747	316 Tucker	Te-4-9739	Rt. 1, Cherryville, NC
Best, Billy Burke	SO	3010	110 Matanga	Te-2-9447	Stumpy Point, NC
Best, Cuyler Deems, Jr.	SO	4182	219 Alexander	Te-2-9349	Rt. 4, Goldsboro, NC
Best, Elwood V.	SO	3506	106 Syme	Te-2-9288	Rt. 1, Turkey, NC
Best, Robert H., Jr.	JR		1720 Hillsboro St.	Te-4-0451	10509 Montrose, Bethesda, Md.
Best, Willie Dean	JR		2402 Clark Ave.	Te-3-7767	2402 Clark Ave., Raleigh, NC
Bethae, Watson D.	FE	4367	22 Stadium		Rt. 1, Hamer, SC
Bethune, Richard F.	SR		1710 Hillsboro St.	Te-4-2001	Eton Rd., Raleigh, NC
Beveridge, Arthur G.	FR	4810	60 Tucker	Te-2-9237	52 Franklin Pl., Summit, NJ
Beyer, Frederick L., Jr.					410 Everette Pl., Durham, NC
Rice, Charles Boyd	FE	3360	228 Bagwell	Te-2-9131	1937 Spruce St., Fayetteville, NC
Bigger, Francis B.	JR	4228	113 Turlington	Te-4-9297	110 Hilton, Monroe, La.
Biggers, Ralph Lee	FR	4544	329 Owen	Te-4-9600	601 Poplar, Rockingham, NC
Biggers, Homer Lee	SR		1508 Frank St.	Te-2-8519	303 Avery Ave., Morganton, NC
Biggerstaff, Robert T.	SO	15351	322-A Bragaw	Te-4-9253	Rt. 3, Vale, NC
Biggerstaff, Tim	SR		Rt. 2, Raleigh, NC		Rt. 1, Bostic, NC
Biggerstaff, William T.	JR		2512 Clark Ave.	Te-2-4843	Rt. 2, Shelby, NC
Biggs, Herman F., Jr.	JR	4179	316 Alexander	Te-2-9349	208 W. 16th St., Lumberton, NC
Biggs, William M.	FR	4535	320 Owen	Te-4-8300	1318 Phipps Ave., Greensboro, NC
Billings, James G.	FR	3509	109 Syme	Te-2-9288	911 Burch Ave., Durham, NC
Billingsley, Paula Sue	FR		2410 Fairview Rd.	Te-3-7037	2410 Fairview Rd., Raleigh, NC
Billingsley, Roy M.	JE				Rt. 1, Box 87, Cary, NC
Bingham, Carrol R.	GR	15154	401-B Bragaw	Te-4-9757	Rt. 2, Box 128, Laurens, NC
Binn, Robert E.	SO	15343	318-A Bragaw	Te-4-9253	301 E. 5th St., Siler City, NC
Birch, Fran Marie	JR			Te-2-8295	2710 Cooleman Dr., Raleigh, NC
Birline, Janice McLean					1020 W. South St., Raleigh, NC
Bishop, Roy M.	SO	3613	17 Syme	Te-2-9421	Box 747, Aberdeen, NC
Bitter, Philip Kerr	SO		184 Horne St.	Te-4-3823	162 Kimberly, Asheville, NC
Bivins, James Frank	SR	3220	208 Becton	Te-2-9263	244 Surry Ave., Elkin, NC
Black, Edward Eugene, Jr.	SO	15199	423-B Bragaw	Va-8-2897	29 Lee Ave., Asheville, NC
Black, Mary Elizabeth	SR		2718 Van Dyke	Te-2-1541	1307-C Saton Pl., High Point, NC
Blackburn, Sammy Gayle	SO	15249	122-C Bragaw	Te-2-9180	2038 Chayce Cir., Charlotte, NC
Blackley, Wilbur E.	FR	4783	356-Tucker	Te-2-9323	Rt. 3, Zebulon, NC
Blackman, Bobby Ray	UN				2510 Vanderbilt Ave., Raleigh, NC
Blackman, Ernest Ray	JR	3526	126 Syme	Te-2-9288	Rt. 1, Hillsboro, NC
Blackman, Lewis M.	JE	15377	408-C Bragaw	Te-4-9754	402 Junction St., Mt. Airy, NC
Blackshaw, George L.	GR				404 Glascock St., Raleigh, NC
Blackwelder, Edwin P.	JR				1508 Frank St., Raleigh, NC
Blackwell, Richard H., Jr.	JR	4311	204 Berry	Te-29363	3017 Carol Ave., Charlotte, NC
Blackwood, Robert H.	SR		Rt. 1, Cary		Rt. 3, Charlotte, NC
Blackwood, Samuel J.	SR		2918 O'Berry St.	Va-8-5118	Rt. 2, Chapel Hill, NC
Blair, James H.	SO	3361	229 Bagwell	Te-2-9131	620 Thomas, Thomasville, NC
Blair, Joseph G.	FR	4568	357 Owen	Te-4-9836	110 Knoolwood Dr., Jamestown, NC
Blake, Betty Jane	UN			Te-2-3550	1805 Ridge Rd., Raleigh, NC
Blake, Henry W.	JR	15377	408-C Bragaw	Te-4-9754	2390 Boone Ave., Winston-Salem, NC
Blake, James Gordon, III	SR	3310	110 Bagwell	Te-4-9219	Rt. 1, Wallace, NC
Blake, Neil F.	JR	3310	110 Bagwell	Te-4-9219	Rt. 1, Wallace, NC
Blakeley, Douglas B.	FR	3780	312 Becton	Te-2-9372	2521 W. Polo Rd., Winston-Salem, NC
Blakely, John R.	JR	3757	223 Becton	Te-2-9334	Rt. 1, Ellerbe, NC
Blalock, Boyle Lee, Jr.	SR		521 Dixie Tr.	Te-3-9378	North Main, Boiling Springs, NC
Blalock, Willard E.	SR	15226	108-D Bragaw	Te-2-9180	Rt. 2, Halifax, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Blanchard, Harold C.	SO	4521	304 Owen	Te-4-9300	N. Thompson, Whiteville, NC
Blanchard, James B.	SO	4344	108 Barry	Te-2-9363	Rt. 1, Turkey, NC
Blanchard, James W.	FR	4290	328 Turlington	Te-2-9192	Rt. 2., Rose Hill, NC
Blanchard, Lois Jean					1897 W. Smallwood Dr., Raleigh, NC
Blanchard, Robert B.	SR	5667	1620 Hillsboro	Te-2-9531	Box 287, Wallace, NC
Blanchard, Stanley	FR		Alexander		Rt. 2, Edenton, NC
Bland, John Henry, Jr.	UN			Ho-7-3405	325 Middleton Ave., Cary, NC
Bland, Wiley Ray	JR	3243	107 Welch	Te-2-9119	Edward, NC
Blankenship, Herbert M.	FR	7596	816 Barbour Dr.	Te-4-9012	Rt. 1, Box 329, Horse Shoe, NC
Blankenship, Robert Vann	SR	15092	223-A Bragaw	Te-2-9185	514 Templeton, Charlotte, NC
Blankenship, Julian A., Jr.	SR	11	11 Maiden Lane	Te-3-6901	1471 Yancey, Lynchburg, VA.
Bledsoe, William B.	SO	3518	118 Syme	Te-2-9288	Sparta, NC
Blevins, Ronald Lee	SO	15347	320-A Bragaw	Te-4-9253	932 Tenn. Ave., Bristol, Tenn.
Blissard, Donald D.	SR		1503 Frank St.	Va-8-9648	Rt. 1, Richlands, NC
Bloodworth, James Morris	JR		809 D Daniels St.	Te-4-5870	809 D Daniels St., Raleigh, NC
Blount, Paul B.	JR	3757	223 Becton	Te-2-9334	Rt. 1, Box 59, Franklin, NC
Blythe, John L.	SO		115 Hawthorne St.		212 W. Thordale, Oxford, NC
Bobbitt, Wayne R., Jr.	JR		Box 215, Angier, NC	8807	Rt. 4, Zebulon, NC
Soddie, Jack W.	SR	3244	108 Welch	Te-2-9119	1505 E. Holly St., Goldsboro, NC
Sodie, James F.	SR	15269	206-C Bragaw	Te-4-7547	405 Spring St., Thomasville, NC
Bodnick, James Davis	JR	4151	322 Alexander	Te-4-9746	1512 2nd St., Pittsburg 25, Pa.
Bodicker, James Joseph	FR	3571	307 Syme	Te-2-9222	1430 River Rd., High Point, NC
Boehm, John V. A.	FR	3398	332 Bagwell	Te-4-9151	344 Tranquil, Charlotte, NC
Boelt, Frederick W.	JR		308 Horne St.	Te-2-7050	331 Richmond Rd., Williamsburg, Va.
Boss, Michael W.	FR	3385	319 Bagwell	Te-4-9151	455 E. Delaware, Southern Pines, NC
Bosae, Ronald R.	SR	4368	312 Owen	Te-4-9300	2712 Woodvale Dr., Winston-Salem, NC
Boger, Ronald Lee	JR	5566		Te-4-8227	215 Endsley Ave., Winston-Salem, NC
Bogle, Clyde Ray	FR	4408	112 Owen	Te-2-9437	Nt. 6, Box 190, Salisbury, NC
Bogus, John Lamouth, Jr.	FR			Te-3-4479	2816 O'Berry St., Raleigh, NC
Boisky, Robert L.	FR	3339	207 Bagwell	Te-2-9131	12 Sturgis St., Fort Bragg, NC
Boles, Billy Joe	SR		2512 Clark Ave.	Te-2-4843	King, NC
Bolick, Herman D.	FR	4185	322 Alexander	Te-2-9349	P.O. Box 316, Hudson, N.
Bolick, Neil O.	SR	3723	123 Becton	Te-2-9256	216 2nd St. N.W., Hickory, NC
Bolick, Roger E.	SR		993 Harp Terr.		993 Harp Terrace, Raleigh, NC
Bolick, Wayne Dale	JR		F-21, Married Stu. Housing	Va-8-3803	Rt. 2, Box 472, Hickory, NC
Bonn, Clem Gibson	FR	3381	315 Bagwell	Te-4-9151	512 Raleigh Rd., Clinton, NC
Bond, Gordon Randel	FR		2405 Clark Ave.	Te-4-9043	1814 Ashton Ave., Bluefield, W. Va.
Bone, Horace T.	JR		302 Shepherd St.	Te-3-9786	322 Shepherd St., Raleigh, NC
Bone, Wayne W.	FR	4419	144 Owen	Te-4-9415	Rt. 3, Nashville, NC
Booker, John L.	SR	3706	146 Becton	Te-2-9256	P.O. Box 55, Plymouth, NC
Booker, John McArtan	SR		24 Hamilton Rd. Chapel Hill, NC	96436	Rt. 5, Clinton, NC
Boone, Charles L.	FR	4564	353 Owen	Te-4-9836	Rt. 3, Rocky Mount, NC
Boone, Clyde R.	PR	3245	109 Welch	Te-4-9119	1429 Fine Valley Loop, Fayetteville, NC
Boone, Jack M.	FR	4703	242 Tucker	Te-4-9828	Rt. 5, Asheville, NC
Booth, John Robert	PR	4473	218 Owen	Te-2-9252	1230 Stanhope Ave., Richmond, Va.
Booth, William H., Jr.	SR		524 Highland Ave.		214 Tate St., Morganton, NC
Booser, Francis J.	SO		2209 1/2 Hope St.	Te-4-3244	2011 Roanoke Dr., Greensboro, NC
Bordeaux, Arthur F., Jr.	FR		21 Enterprise St.	Te-4-2815	Ingold, NC
Bordeaux, Franklin D.	FR	4737	304 Tucker	Te-2-9323	Rt. 5, Box, 489, Durham, NC
Bordeaux, Larry D.	SR		1706 Dare St.	Te-3-5356	P.O. Box 77, Ingold, NC
Borden, Murray L.	JR		2612 Clark Ave.	Te-2-9484	105 N. Claiborne St., Goldsboro, NC
Borokhina, Marcoucelr Manny	SO	5831	206 Mautanga	Te-2-9432	Teheran, Iran
Boryk, John M.	SO		2718 Clark Ave.	Te-2-6451	Burgaw, NC
Borwick, Raven	JR		211 Groveland Ave.		Bazar, Sari, Iran
Borner, Carson Gary	FR	3750	216 Becton	Te-2-9334	Rt. 3, Box 312, Chester, Va.
Bost, Dave Tate	JR	3551	119 Syme	Te-2-9150	Rt. 1, Newton, NC
Bost, James Lynn	FR	4296	347 Turlington	Te-2-9192	Box 516, Rockwell, NC
Bost, Lloyd C., Jr.	SO	15122	111-C Bragaw	Te-4-9179	1756 Maryland Ave., Charlotte, NC
Bost, Michael B.	FR	3240	104 Welch	Te-2-9119	534 Bracken, Sanford, NC
Bostian, Charles W.	SO	15404	422-A Bragaw	Te-4-9754	1001 Canterbury Rd., Raleigh, NC
Bostian, Clarence L., Jr.	SR		Q-217, Married Stu. Housing		Rt. 5, Salisbury, NC
Bostian, Curtie H.	SO		4833 Fayetteville	Va-8-5236	Rt. 1, Mooresville, NC
Bostian, Max Elmo	SR	341-A	Rt. 1, Cary, NC		Rt. 1, China Grove, NC
Bostrom, King Oscar	FR		2012 Glenwood Ave.	Te-4-8870	2012 Glenwood Ave., Raleigh, NC
Bouchard, Richard J.	PROF				535 Wayne Dr., Raleigh, NC
Boughan, John R.	SO	15347	320-A Bragaw	Te-4-9253	West Point, Va.
Bouknight, Wendell J.	SO	15111	305-D Bragaw	Te-4-9179	Rt. 4, Charleston, Ill.
Bourne, Charles Wallace, Jr.					1109 Montpelier Dr., Greensboro, NC
Bourne, Robert B.	FR	2729	2729 Van Dyke	Te-3-5052	2729 Van Dyke, Raleigh, NC
Bovender, Richard R.	FR	3746	212 Becton	Te-2-9334	Rt. 1, Winston-Salem, NC
Bowens, Harold T.	FR	4322	302 Berry	Te-2-9363	512 21st St., Va. Beach, Va.
Bowens, Robert W., Jr.	FR	15337	314-C Bragaw	Va-8-9519	1824 Park Dr., Charlott, NC
Bowers, James Scott	SO		423 Chesterfield Dr.	Te-3-9027	423 Chesterfield Dr., Raleigh, NC
Bowles, Hugh C.	JR	361-A	Rt. 1, Cary, NC		Rt. 1, Hiddenite, NC
Bowling, Edward Lee	SH		801-B Daniels St.	Te-2-5570	801-B Daniels St., Raleigh, NC
Bowman, Carroll M.	FR	4756	329 Tucker	Te-4-9739	Rt. 7, Box 722, Lenoir, NC
Bowman, Dennis Wade	FR	4474	219 Owen	Te-2-9410	Rt. 1, Westfield, NC
Bowman, Ralph F.	FR	3739	205 Becton	Te-2-9334	4413 6th St. Loop N.W., Hickory, NC
Boyce, Oren Douglas	JR	15366	403-D Bragaw	Te-4-9754	BoyceLynn, Gastonia, NC
Boyce, William Clifton, Jr.	SO		400 Chamberlain St.	Va-8-3219	207 Belmont, Windsor, NC
Boyd, Daniel M. III	SR		1332 Walnut Trail	Te-4-2665	N. Oak St., Lincolnton, NC
Boyd, Daniel L.	SR		923 Tower St.	Te-3-6215	420 E. Center, Mooresville, NC
Boyd, George V., III	FR	3549	217 Syme	Te-2-9150	1306 Chestnut, Henderson, NC
Boyd, Hugh A., Jr.	GR		UK-30, Vetsville		425 James St., McComb, Miss.
Boyd, Robert H.	FR		Rt. 7, Raleigh	Va-8-9658	Rt. 7, Raleigh, NC
Boyer, Allen H.	UN		115 Woodburn Rd.	Te-2-2933	3611 Old Ferry Rd., Martinez, Ga.

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Boyet, Wayne E.	GR		3015 Leonard St.	Te-2-8279	Rt. 3, Box 212, Ringgold, La.
Boyette, Allen C.	SR		1508 Frank St.	Te-2-1789	Rt. 4, Goldsboro, NC
Boyette, James E., Jr.	JR	3353	121 Bagwell	Te-2-9131	Rt. 3, Kenly, NC
Boyette, Lieslie D.	SO	4575	364 Owen	Te-4-9836	15 Front St., Rockingham, NC
Boyette, Norwood R.	FR	4268	303 Turlington	Te-2-9192	Rt. 2, Box 641, Clayton, NC
Boyette, Warren C.	SO	4239	211 Turlington	Te-2-9297	Rt. 2, Clayton, NC
Boylard, James Leo	SR		1709 Hillsboro	Te-3-6901	204 Guthrie Ave., Alexandria, Va.
Boyer, Norman C.	FR	4122	127 Alexander	Te-2-9257	77 E. Chestnut St., Asheville, NC
Bracey, Gurney E., Jr.	SR		A-23, Married Stu. Housing		Red Springs, NC
Bracey, Lucius H., Jr.	SR		1710 Hillsboro	Te-4-2001	202 E. Franklin, South Hill, Va.
Bracken, Robert J.	SO	15321	306-D Bragaw	Te-4-9253	502 Gulf, Sanford, NC
Brackett, Douglas A.	FW	4802	52 Tucker	Te-2-9237	P.O. Box 5102, Charlotte, NC
Brackett, Mitchell D.	SR	15392	416-A Bragaw	Te-4-9754	Box 94, Cosor, NC
Bradcock, James W.	FR	4707	237 Tucker	Te-2-9387	111 Forest Hill, Morganton, NC
Braddy, Marvin B.	JR	4227	131 Turlington	Te-4-9279	613-9th St., Scotland Neck, NC
Bradford, Fred H.	FR	4298	339 Turlington	Te-2-9192	515 Worth St., Mt. Airy, NC
Bradford, Garnett L.	EW		721 Shelly Rd.	Ext. 492	Rt. 3, Cynthia, Ky.
Bradley, Arthur L.	FR	4746	315 Tucker	Te-2-9323	Rt. 3, Tarboro, NC
Bradley, Edwin W., Jr.	SR		1508 Frank St.	Te-4-3254	1508 Frank St., Raleigh, NC
Bradley, Marcus S.	JR	15380	410-B Bragaw	Te-4-9754	Box 206, Hobgood, NC
Bradley, Richard B.	FR	4582	48 Owen	Te-2-9142	Rt. 1, Whitakers, NC
Bradley, Roderick W.	FR	4480	225 Owen	Te-2-9410	20 Gilkey St., Marion, NC
Bradley, Wallace C.	JR		307 Hillcrest	Te-2-5613	Gerton, NC
Bradshaw, Edward Neal	UN		320 Avon Dr.	Te-4-5439	320 Avon Dr., Raleigh, NC
Bradshaw, Joe G.	GR	3332	Bagwell	Rt. 4-9219	Rt. 2, Lebanon, Tenn.
Bradshaw, John A.	JR	4693	222 Tucker	Te-2-9387	500 E. Cemetery, Salisbury, NC
Bradshaw, Loyd, Jr.	SO	3090	209 Bagwell	Te-2-9131	Rt. 2, Franklin, Va.
Bradshaw, Richard A.	SO	3253	205 Welch	Te-2-9119	128 Confederate, Salisbury, NC
Brady, Burl H.	SR		1720 Hillsboro	Te-4-0451	11 North Rd., Salisbury, NC
Brady, Donald B.	FR	3567	303 Syme	Te-2-9222	212 E. Oak St., Selma, NC
Brady, James A., Jr.	FR	3342	210 Bagwell	Te-4-9131	215 S. Currie St., Wallace, NC
Brady, John R.	JR		1818 1/2 Glenwood Ave.	Va-8-3052	1818 1/2 Glenwood Ave., Raleigh, NC
Brady, Larry Escar	SR	15028	115-B Bragaw	Va-8-9733	230 N. Oak St., Statesville, NC
Brady, Leslie Ray, Jr.	FR	4432	138 Owen	Te-2-9115	118 E. First St., Newton, NC
Brake, Henry L., Jr.	SO	4491	237 Owen	Te-2-9252	Box 168 Cokey Rd. Ext., Rocky Mt., NC
Brake, John I., Jr.	SO	4201	102 Turlington	Te-4-9279	Rt. 3, Rocky Mount, NC
Brakebill, James Henry, III	SR		209 Gardner St.	Te-3-1702	360-A Gulick Dr., Ft. Monroe, Va.
Brame, James A.	SR		207 Furches St.		3109 W. Market St., Greensboro, NC
Bramlett, David Lee	EW		2702 Ashland St.	Te-2-7607	17 Katherine Pl., Asheville, NC
Branch, Carl M.	JR	15251	124-A Bragaw	Te-2-9180	Rt. 2, Box 258, Lumberton, NC
Branch, Charles P.	FR	4163	237 Alexander	Te-4-9746	P.O. Box 164, Mt. Airy, NC
Brandt, Robert O.	FR	3715	115 Becton	Te-2-9256	Acme, NC
Brannock, William E.	SR	15169	409-A Bragaw	Rt. 1-9757	Rt. 1, Reidsville, NC
Brannon, Henry K., Jr.	SR		2503 Greenway Ave.	Te-4-5885	2503 Greenway Ave., Raleigh, NC
Brant, Paul W.	JR		2404 Beechridge Rd.	Te-2-7791	2404 Beechridge Rd., Raleigh, NC
Brantley, John C., III	SO	4265	240 Turlington	Te-2-9297	1920 St. Mary's St., Raleigh, NC
Brantley, William A.	SO			Te-3-0022	152 Jones-Franklin Rd., Raleigh, NC
Brawell, Paul A., Jr.	FR	4516	265 Owen	Te-2-9252	2708 Brightwood Ct., Winston-Salem, NC
Brawley, Roger V.	FR	4453	162 Owen	Te-2-9473	Rt. 3, Marshville, NC
Bramer, Julius P.	JW	3508	108 Syme	Te-2-9288	Box 142, Norlina, NC
Brawley, Joel V., Jr.	GR			Va-8-6379	2620 Kilgore Ave., Raleigh, NC
Brawley, Sumter C., III	SR		2612 Clark Ave.	Te-2-9484	4024 Bristol Rd., Durham, NC
Bray, Walter F.					Rt. 4, c/o E. M. Stormes, Raleigh, NC
Bray, William R.	EW		103 Chamberlain		713 N. George, Goldsboro, NC
Breeden, James B.	SO	15097	225-B Bragaw	Te-2-9185	2108 Rock Ave., Fayetteville, NC
Breeden, Willie Roy, Jr.	SO	4130	138 Alexander	Te-2-9257	Rt. 3, Box 308, Elizabeth City, NC
Brendle, David J.	FR	3342	210 Bagwell	Te-2-9131	Box 12, Drexel, NC
Brendle, Opal G.	GR				Sta. B, 7590, Raleigh, NC
Brewer, Gene R.	FR	4656	149 Tucker	Te-2-9388	Rt. 3, Box 211, Newland, NC
Brewer, Harold W.	FR	4444	153 Owen	Te-2-9115	Rt. 3, Box 52-A, High Point, NC
Brewer, James E.					Box 361-A, Rt. 1, Cary, NC
Brickhouse, George D., Jr.	FR	4815	65 Tucker	Te-2-9237	1512 Pryor Ave., Elizabeth City, NC
Brickhouse, William H.	SR		2333 Grant Ave.	Te-4-6361	2333 Grant Ave., Raleigh, NC
Bridgeman, Sherman M., Jr.	SR		125 Hawthorne Rd.	Te-2-1183	619 Highgate Rd., Hendersonville, NC
Bridgere, Gary B.	EW	15301	222-D Bragaw	Te-4-9123	Conway, NC
Bridgere, Ronald K.	FR		833-C Daniels St.	Te-2-3844	1741 W. Nash St., Wilson, NC
Bridges, John W., III	FR	4183	320 Alexander	Te-2-9349	5 Cambridge, Ninety Six, SC
Bridges, Robert O.	EW			Ho-7-4203	Rt. 1, Box 361-A, Cary, NC
Briggs, Charles S.	SR		c/o Stuart Adcock Varina, NC		Rt. 1, Burnsville, NC
Briggs, Paul Thurman	JR	4652	125 Tucker	Te-2-9388	Rt. 6, Lexington, NC
Briggs, Roger A.	JW	4652	143 Tucker	Te-2-9388	CC-12, Box 40-A, Lexington, NC
Bright, Samuel J.	SO	3573	309 Syme	Te-2-9222	Rt. 1, Whiteville, NC
Brill, Richard B.	SR	15165	407-A Bragaw	Te-4-9757	Urbanna, Va.
Brinkley, Ernest F., Jr.	UN		125 Cox Ave.	Va-8-3593	936 Cowper Dr., Raleigh, NC
Brinn, Jack E., Jr.	FR	4337	4 Berry	Te-2-9350	Box 214, Hertford, NC
Brinson, Halbert R.	EW			Te-3-0564	204 Buck Jones Rd., Raleigh, NC
Briscoe, John R.	FR	10002	Cameron Village Sta.	Te-3-2988	117 Morris Ave., Mt. Lakes, NJ
Bristol, William J.	FR	4445	154 Owen	Te-2-9115	Rt. 4, Box 26, Hayesville, NC
Britton, Robert D.	FR	4688	217 Tucker	Te-2-9387	Homewood Acers, Siler City, NC
Britt, Donald A.	SO		216 Hillcrest		Rt. 2, New London, NC
Britt, Harry Shore	SO	3719	119 Becton	Te-2-9256	300 Warsaw Rd., Clinton, NC
Britt, Ramon P.	JR		200 Brooks Ave.	Te-4-4998	819 East Fifth, Lumberton, NC
Britt, Thomas O.				Te-3-5483	110 Glenwood Ave., Raleigh, NC
Britt, Victor H., III	SO		3017 Medlin Dr.	Te-4-1552	3017 Medlin Dr., Raleigh, NC
Brittann, Robert E.	SO	15153	401-A Bragaw	Te-4-9757	400 Hardin, Boone, NC
Brittann, Wayne M.	SR	4735	302 Tucker	Te-4-9739	312 Walton Rd., Morganton, NC
Brittingham, James C.	FR	4585	57 Owen	Te-2-9142	Dogwood, Hamlet, NC
Britton, Gene A.	EW	3237	101 Welch	Te-2-9119	Jackson, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Britton, Walter M.	SR	4768	338 Tucker	Te-2-9323	Lasker, NC
Broadwell, Reuben G.	SO	129	Rt. 2, Raleigh		Poole Rd., Raleigh, NC
Brock, Bobby G.	FR	4691	220 Tucker	Te-2-9387	Rt. 1, Wade, NC
Brock, Jerry R.	FR	4547	332 Owen	Te-4-9300	52 Sub. Station, Canton, NC
Brock, Larry D.	FR	4428	133 Owen	Te-2-9473	Rt. 1, Bunnlevel, NC
Brockmann, Otto R., Jr.	SR		2419 Greenway Terr.	Te-4-6502	915 Forest Hill Dr., Greensboro, NC
Brodie, Billy Burl	GR		16 Maiden Lane	Te-4-7813	16 Maiden Lane, Raleigh, NC
Brogden, Roy O.	JR		109 Owen	Te-2-9473	Whiteoak Rd., Garner, NC
Brogden, William A.	SO	44160	403-D Bragaw	Te-4-9757	707 Lawrence, Sanford, NC
Bromby, William R., Jr.	FR	3603	7 Syme	Te-2-9421	54 W. Grant Ave., Roselle Park, NJ
Brooks, Francis A.	SR			Te-4-7320	801 W. Pineland Dr., Raleigh, NC
Brooks, Fred G., Jr.	FR	3509	109 Syme	Te-2-9288	513 S. Duke St., Durham, NC
Brooks, Guy Moody	FR	4446	155 Owen	Te-2-9115	1103 Lakeview St., Kannapolis, NC
Brooks, John D.	FR		4700 Hillsboro	Te-2-9763	Box 274 Sparta, NC
Brooks, Joseph F., Jr.	GR			Te-4-4461	2724 Clark Ave., Raleigh, NC
Brooks, Robert C.	GR			Ho-7-9455	216 Willow St., Cary, NC
Brooks, Wayne Maurice	SR			Te-4-0521	2625 Noble Rd., Raleigh, NC
Brooms, Harold W.	SR		1216 Franklin Rd.	Va-8-5958	Rt. 1, Mt. Holly, NC
Brooms, Robert W.	JR		2512 Clark	Te-2-4843	345 7th Ave., Fl. N.W., Hickory, NC
Brooms, Lawrence J.	FR	4726	259 Tucker	Te-2-9387	Robbinsville, NC
Brosius, Marriott B., II	SO	3544	212 Syme	Te-2-5190	Box 145, Statesville, NC
Brothers, Walter Lee	FR	4708	238 Tucker	Te-2-9387	1003 Nancy Lane, Winston-Salem, NC
Brotherton, Robert T.	SR		317 Calvin Rd.	Va-8-5125	Sherrillis Ford, NC
Broughton, John C.	SR	15400	420-A Bragaw	Te-4-0435	1112 W. Garner Rd., Garner, NC
Broughton, Royall M., Jr.	FR		165 Tucker	Te-2-9388	Rt. 2, Wake Forest, NC
Brown, Allen R.		4352	7 Stadium		Snow Hill, NC
Brown, Barbara Ann					Rt. 6, Box 259-A, Raleigh, NC
Brown, Benjamin L.	SO	15198	423-A Bragaw	Te-4-9757	65 Carolina Ave., Rhodhiss, NC
Brown, Carroll F.	FR	3392	326 Bagwell	Te-4-9151	402 School Dr., Williamston, NC
Brown, Charles G.	SR		2601 Clark	Te-2-8631	5204 Devonshire Rd., Richmond, Va.
Brown, Charles Franklin, Jr.	JR	3317	117 Bagwell	Te-4-9219	Hope Mills, NC
Brown, Charles Richard	SR			Te-3-5534	20 Turner St., Raleigh, NC
Brown, Churchill P.	JR		2612 Clark	Te-2-9484	Roanoke Ave., Littleton, NC
Brown, David W.	FR	4550	336 Owen	Te-4-9300	Cardinal Motel, Henderson, NC
Brown, Dayne H.	JR			Te-3-1168	1321 Franklin Rd., Raleigh, NC
Brown, Donald W.	SO		2713 Bedford Ave.	Te-3-4548	Carthage Rd., Robbins, NC
Brown, Eugene W.	JR				301 W. Cornwallis Rd., Durham, NC
Brown, Franklin D.	FR	3614	18 Syme	Te-2-9421	609 Westmont Dr., Fayetteville, NC
Brown, Henry A.	SR		120 1/2 Groveland Ave.	Te-3-8037	305 Center St., Apex, NC
Brown, Howard P.	SO	3363	231 Bagwell	Te-2-9131	1124 N. Bonner, Washington, NC
Brown, James A., Jr.	FR	4439	148 Owen	Te-2-9115	Cleveland, NC
Brown, James Orta	FR	3320	120 Bagwell	Te-4-9219	967 Straight St., Asheboro, NC
Brown, James W.	GR			Ho-7-4203	Box 361-A, Cary, NC
Brown, John Henry, Jr.	JR	15010	105-B Bragaw	Te-2-9129	1145 Tarboro St., Rocky Mount, NC
Brown, Johnny M.	SO	15036	117-C Bragaw	Te-2-9129	1429 Winston Rd., Lexington, NC
Brown, Joseph Matt	SR		403 Horne St.		
Brown, Kenneth W.	JR		1509 1/2 Hillsboro		215 Sidney Dr., Burlington, NC
Brown, Larry Whitmal	FR	3770	302 Becton	Te-2-9372	Jamesville, NC
Brown, Neil E.	FR	3395	329 Bagwell	Te-4-9151	11 Spring Cove Rd., Asheville, NC
Brown, Randall L.	SR	5545	402-D Bragaw	Te-4-3711	3821 High Point Rd., Greensboro, NC
Brown, Ray Jackson	UN		2232 Hillsboro	Te-3-8716	R.F.D. 1, Colerain, NC
Brown, Robert H.	FR	4241	213 Turlington	Te-2-9297	Box 567, Swannanoa, NC
Brown, Robert L.				Ex-5-3478	Box 544, Wake Forest, NC
Brown, Roy Jennings	FR	4159	230 Alexander	Te-4-9746	Fifth St., Smithfield, NC
Brown, Ruby Lee	GR		Botany & Bact. Dept.	Ext. 379	Rt. 1, Carthage, NC
Brown, Stephen Hunt	SR		6 peace St.	Te-4-6401	311 S. Slocumb St., Goldsboro, NC
Brown, Talmage T., Jr.	SR		1718 Hillsboro	Va-8-4464	1709 Bickett Blvd., Raleigh, NC
Brown, Thomas Wayne	SO	4471	216 Owen	Te-2-9410	Rt. 6, Statesville, NC
Brown, William C.	SO	15383	412-A Bragaw	Te-4-9754	8-F Alta Villa St., Fort Bragg, NC
Brown, William Robert	SR		1332 N. Blvd.	Va-8-5071	Box 23, Bat Cave, NC
Browning, Charles R.	SR		233 Riddick	Ext. 436	133 Hamilton Rd., Chapel Hill, NC
Browning, James S.	JR		7 Enterprise St.	Te-4-0435	421 N. Main St., Salisbury, NC
Browning, Jesse D.	SR		Rt. 3, Durham	43783	5108 Market St., Wilmington, NC
Brubaker, Donald E.	FR	3718	118 Becton	Te-2-9256	301 Frances Pl., Kinston, NC
Bruck, David Lewis	GR		1405 Lyon St.	Te-4-7871	5612 Sylvan Ave., Riverdale, NY
Brumley, John M.	FR		1620 Hillsboro	Va-8-3323	211 S. College Ave., Newton, NC
Brummitt, James H.	SR		Tucker	Te-2-9387	Rt. 4, Henderson, NC
Brummitt, Robert G.	FR	4649	139 Tucker	Te-2-9388	Rt. 4, Henderson, NC
Brunk, Frederick C.	SO		2405 Clark	Te-2-6543	4834 Stafford Cir., Charlotte, NC
Bruton, James Isaac	SO	3304	104 Bagwell	Te-4-9219	Fremont, NC
De Bruyne, Anton L., Jr.	FR	4664	157 Tucker	Te-2-9388	307 N. Greysen St., Durham, NC
Bryan, Frederick A., Jr.					Rt. 4, Raleigh, NC
Bryan, George Howard	SR	3005	103 Watauga	Te-2-9447	264 S. Sunset Dr., Winston-Salem, NC
Bryan, William R.	SO		2512 Clark	Te-2-4843	397 Glenquarry Ave., Montreal, Quebec, Canada
Bryant, Charles D.	GR		3204 Mayview	Te-3-6498	3204 Mayview Rd., Raleigh, NC
Bryant, Charles S.	JR				2910 O'Berry St., Raleigh, NC
Bryant, Dudley Ed, III	SR		2612 Clark	Te-2-9484	Box 388, Danville, Ky.
Bryant, Eugene Mack	SR		8 St. Mary's St.		1408 Oakland St., Hendersonville, NC
Bryant, Jackie M.	SO		1216 Franklin Rd.		Rt. 1, Vanceboro, NC
Bryant, John Everett	FR	3045	309 Watauga	Te-2-9488	503 Clay St., Franklin, Va.
Bryant, Linda Louise	UN				2910 O'Berry St., Raleigh, NC
Bryson, Ann Franklin	SO		G-12, Married Stu. Housing		1 Kenilworth Rd., Asheville, NC
Bryson, Lionel Herb	JR	4519	302 Owen	Te-4-9300	Box 695, Sylva, NC
Bryson, Philip R., Jr.	SO		G-12, Married Stu. Housing		22 La. Arc., Asheville, NC
Bubnis, John J.	FR	4805	55 Tucker	Te-2-9186	108 E. Center St., Sheandoah, Pa.
Buchanan, John Ralph	FR	4445	154 Owen	Te-2-9115	Blowing Rock Rd., Boone, NC
Buchanan, Robert W.	GR		154 1/2 St. Mary's St.	Te-2-1253	Rt. 1, Clemmons, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Buchanan, William Tom	JR			Te-3-9465	Rt. 1, Raleigh, NC
Buchanan, William W. JR	JR	4454	163 Owen	Te-2-9473	Rt. 2, Roxboro, NC
Buck, Coy Glen, Jr.	SO	3778	310 Becton	Te-2-9372	Rt. 1, Box 79-A, Stokes, NC
Buck, James Ross	FR	3775	307 Becton	Te-2-9372	Rt. 1, Lewisville, NC
Buckingham, Phillip L.	FR	4264	239 Turlington	Te-2-9297	3039 Northampton Dr., Charlotte, NC
Buckley, Francis J., Jr.	FR	4684	212 Tucker	Te-4-9828	525 4th Ave. W., Hendersonville, NC
Buckley, William B.	SR		L-14, Married Stu. Housing	Te-3-0918	L-14, Married Stu. Housing, State College Sta.
Buckner, Charles W.	JR	4755	324 Tucker	Te-2-9323	Azalea Lane, Burnsville, NC
Buckner, John Bruce	FR	4748	317 Tucker	Te-4-9739	Rt. 3, Mars Hill, NC
Buckner, William Lee	FR	4294	333 Turlington	Te-2-9192	Rt. 1, Siler City, NC
Bueck, Hieronymus C.	SR		104 Logan Ct.	Va-8-6188	Box 148, Franklin, NC
Buffalo, David E.	JR	3617	21 Syme	Te-2-9421	467 Cedar La., Millville, NJ
Buffalo, James J.	SO	4182	319 Alexander	Te-2-9349	Rt. 1, Willow Spring, NC
Buie, James C.	JR		2512 Clark	Te-2-4843	Rt. 7, Winston-Salem, NC
Bullard, James Connor	SR			Te-3-0972	627-A Daniels St., Raleigh, NC
Bullington, Terry D.	FR	15360	326-B Bragaw	Te-4-9253	Pittsboro, NC
Bullis, Gary Harvey	SR	3402	134 Bagwell	1522 Hanover, Burlington, NC	
Bullock, Charles W.	FR	3565	301 Syme	Te-2-9222	310 S. Main St., Fairmont, NC
Bullock, Richard W.	JR		1508 Frank St.	Va-8-5406	Rt. 4, Zebulon, NC
Bullock, Robert Lee	FR	4691	220 Tucker	Te-2-9387	Rt. 1, Stem, NC
Bumgardner, David R.	SO	15166	407-B Bragaw	Te-4-9757	Rt. 1, West Jefferson, NC
Bumgardner, Larry Tyson	FR	4665	158 Tucker	Te-2-9388	Box 225, Stanley, NC
Bumgarner, Thomas S.	FR	4181	318 Alexander	Te-2-9349	Rt. 4, Taylorsville, NC
Bunch, Thomas E.	FR	4498	247 Owen	Te-2-9252	R.F.D. 2, Laurel Hill, NC
Bunn, George A.	SO	4583	49 Owen	Te-2-9142	Rt. 5, Goldsboro, NC
Bunting, Phillip M.	SR	15030	117-B Bragaw	Te-2-9129	715 Elwell Ave., Greensboro, NC
Buonato, Eugene G.	SO	4435	141 Owen	Te-2-9115	653 Wildwood Blvd., Williamsport, Pa.
Burden, James R.	SO	4799	49 Tucker	Te-2-9186	Aulander, NC
Burgess, Laron C., Jr.	FR		316 N. Boundary St.	Te-2-3394	316 N. Boundary St., Raleigh, NC
Burgess, Larry C.	FR	3623	27 Syme	Te-2-9421	Rt. 5, Edgewood Rd., Asheville, NC
Burgess, Robert E.	JR	15163	405-C Bragaw	Va-8-6547	55 New York Ave., Sumont, NJ
Burgess, Robert Marshall	SO		2718 Clark	Te-2-6451	Box 183, Burlington, NC
Burgess, Thomas Rudolph	FR	4732	265 Tucker		Rt. 1, Ramseur, NC
Burgess, William James	FR	4525	308 Owen	Te-4-9300	Staley, NC
Burk, William J., III	JR	15282	212-D Bragaw	Te-4-9123	10 Magnolia Rd., Charleston 44, SC
Burke, Baxter D.	SR	15409	424-B Bragaw	Te-4-9754	Rt. 4, Box 112, Siler City, NC
Burke, James F.	SR	15287	216-B Bragaw	Te-2-9185	704 W. Gold St., Kings Mtn., NC
Burke, Robert H.	FR	4687	216 Tucker	Te-2-9387	11 Ballegrove Dr., Montclair, NJ
Burkes, Marc Ray	SO	15293	218-D Bragaw	Te-4-9123	370 Cox Ave., Calhoun Falls, SC
Burks, Tommy R.	FR	4549	335 Owen	Te-4-9836	Farrish Ave., Covington, Va.
Burleson, Larry Joe	SO	4594	60 Owen	Te-2-9142	137 Coble Ave., Albemarle, NC
Burnette, Thurman E.	SO	4691	220 Tucker	Te-4-9828	Rt. 2, Oxford, NC
Burns, Barry E.	FR	3554	222 Syme	Te-2-9150	Rt. 1, Box 58-A, Pittsboro, NC
Burns, David Lee			1333 Canterbury Rd.	Te-2-7320	Rt. 1, Robbins, NC
Burns, William T.	FR	3342	210 Bagwell	Te-2-9131	Burns, Drexel, NC
Burris, Timothy A.	FR	4469	214 Owen	Te-2-9410	Badin Rd., Albemarle, NC
Burton, Charles A.	SO	15141	321-A Bragaw	Te-4-9179	Oxford, NC
Burton, Charles David	FR	3569	305 Syme	Te-2-9222	Bolivia, NC
Burton, Hugh A.	FR	4332	312 Barry	Te	411 Bordeaux, Jacksonville, NC
Burton, Paul G.	SR		1510 Simpkins St.	Te-3-9874	Castle Hayne, NC
Burton, Sherrill P.	SO			28552	Rt. 6, Durham, NC
Burton, William A.	SR		216 Hillcrest Rd.	Te-3-4993	3860 Clinard Ave., Winston-Salem, NC
Burton, William Edward, Jr.	JR	15238	116-D Bragaw	Te-2-9180	Rt. 1, Hickory, NC
Burwell, Danny E., Jr.	FR	4587	53 Owen	Te-2-9142	2136 Haymont St., Winston-Salem, NC
Burwell, Venable B.	GR		D Glenwood Gardens		Rt. 4, Oxford, NC
Bush, Harold G.	SR	3224	212 Gold	Te-2-9263	Rt. 1, Box 46-A, New London, NC
Bush, John I.	SO	3123	205 Fourth	Te-2-9159	Rt. 1, Box 46a, New London, NC
Bush, William H.	SR	3019	201 Watauga	Te-2-9132	1726 Ashley Rd., Charlotte 8, NC
Bush, William J.	SR		2910 Sanbury Rd.	Te-3-6205	8 Carbon St., Minersville, Pa.
Bushofsky, Joseph E.	JR	15078	215-C Bragaw	Te-4-9185	3867 Evergreen, Pittsburgh, Pa.
Busic, Robert F.	SR	15243	120-A Bragaw	Te-2-9180	Box 74, Sparta, NC
Buseard, Robert G.	FR	4250	222 Turlington	Te-2-9297	23 W. Main St., Everett, Pa.
Butler, Dorsey M., Jr.					B-10 Washington Terr., Raleigh, NC
Butler, Edward Berton	SO	4716	249 Tucker	Te-2-9387	202 Roberson, Rockingham, NC
Butler, Eugene F., Jr.					525 2nd St., Clayton, NC
Button, Bryan L.	GR		Q-220, Married Stu. Housing		42 Beechwood Ave., Wednesfield, Stafford- shire, England
Butzach, Joseph J.	SO		Watauga		2320 Westover Dr., Winston-Salem, NC
Byars, Jack B.	FR	4266	301 Turlington	Te-2-9192	606 Hammond St., Durham, NC
Byers, Ted R.	SR		210 Cox Ave.	Te-4-9936	210 Cox Ave., Apt. C, Raleigh, NC
Bynum, John Alex, Jr.	FR	4488	233 Owen	Te-2-9252	Morven Rd., Wadesboro, NC
Byrd, Bruce W., Jr.	GR		A-12, Married Stu. Housing	Te-2-8061	Rt. 1, Hartsville, SC
Byrd, David L.	JR	3601	5 Syme	Te-2-9421	Rt. 1, Chadbourne, NC
Byrd, Edward M.	JR	15095	223-D Bragaw	Te-2-9185	Rt. 1, Orrum, NC
Byrd, James Theron, Jr.	JR			Te-2-9992	633 Georgetown Rd., Raleigh, NC
Byrd, John T., Jr.	FR	4665	158 Tucker	Te-2-9388	Rt. 2, Wilkesboro, NC
Byrd, Kenneth R.	FR	3353	221 Bagwell	Te-2-9131	Rt. 1, Sims, NC
Byrd, Larry E.	FR	4534	319 Owen	Te-4-9300	Rt. 3, Burlington, NC
Byrd, William B.	SR	15090	221-C Bragaw	Te-8-9590	Bunnlevel, NC
Byrd, Woodson V.	FR			Te-2-0346	3040 Churchill Rd., Raleigh, NC
Cabe, Alex Wimer, Jr.	SR	15189	417-D Bragaw	Te-4-9757	Box 11, Fontana Dam, NC
Cabe, Lewis R.	SR		2718 Clark	Te-2-6451	16 Georgia Rd., Franklin, NC
Cagle, Donald Ray	SO	15385	412-C Bragaw	Te-4-9754	1903 Michigan St., Kannapolis, NC
Cain, Edwin S.	FR	4789	362 Tucker	Te-2-9323	1641 S. 28 St., Philadelphia, Pa.
Cain, Marshall B.	FR	3393	327 Bagwell	Te-4-9151	Box 45, Wallace, NC
Cain, Ronald C.	FR	4475	220 Owen	Te-2-9410	Rt. 2, Box 177, Elizabethtown, NC
Caines, Billy Joe	FR	3379	313 Bagwell	Te-4-9151	2421 Shirley Rd., Wilmington, NC
Caison, Cecil G.	SR	4809	59 Tucker	Te-2-9186	507 W. Crawford St., Mebane, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Caison, Donald H.	SC	4809	59 Tucker	Te-2-9186	W. Crawford, Mebane, NC
Caison, Maurice F.	FR	3321	121 Bagwell	Te-4-9219	P.O. Box 405, Supply, NC
Caldwell, Daniel E.	FR	4728	261 Tucker	Te-2-9387	R.F.D. 1, Mt. Ulla, NC
Caldwell, Dutch J.	JR	3364	232 Bagwell	Te-2-9131	920 Allison, Jacksonville, Fla.
Caldwell, Ernest L.	SO	5276	10 N.C. State YMCA	Te-2-7184	1702 Aberdeen Rd., Baltimore 4, Md.
Caldwell, Henry D.	FR	15183	415-B Bragaw	Te-4-9757	Box 127, Clyde, NC
Caldwell, James D.	SR	15193	419-B Bragaw	Va-85312	Box 127, Clyde, NC
Caldwell, James H., Jr.	FR	3540	208 Syme	Te-2-9150	213 Irbwood Dr., High Point, NC
Caldwell, James Philo, Jr.	JR		314 Hillsboro		2085 Hopedale Ave., Charlotte, NC
Caldwell, Jimmie H.	JR		F-22, Married Stu. Housing	Te-4-3972	24 E. Sunrise Ave., Thomasville, NC
Caldwell, Joe Marshall	FR	4480	225 Owen	Te-2-9410	Rt. 2, Newton, NC
Caldwell, William M.	FR	4562	351 Owen	Te-4-9836	2318 Rama Rd., Charlotte, NC
Cale, David Ben	FR	4534	319 Owen	Te-4-9300	R.F.D. 3, Burlington, NC
Calhoun, John W.	JR	4815	65 Tucker	Te-2-9186	609 E. Center, Mooresville, NC
Calhoun, Lauder E.	SR	4724	257 Tucker	Te-4-9828	Rt. 1, Laurinburg, NC
Calhoun, Leon C., Jr.	FR	4782	355 Tucker	Te-4-9739	R.F.D. 4, Box 350, Rocky Mount, NC
Calhoun, Ronnie E.	JR	4448	157 Owen	Te-2-9115	129 Yonk-Union Rd., Gastonia, NC
Callahan, Fred L., Jr.	JR		207 Purches St.	Te-2-9178	610 Caroleen Rd., Forest City, NC
Callenett, Joseph B.	JR		2713 Vanderbilt Ave.		1421 S. Fayetteville St., Asheboro, NC
Callicut, Jerry C.	JR		2713 Vanderbilt Ave.		Rt. 5, Asheboro, NC
Calloway, Bigler R.	JR		2612 Clark	Te-2-9484	1346 Watauga, Kingsport, Tenn.
Calloway, James L.	PH	4484	229 Owen	Te-2-9252	P.O. Box 312, Highlands, NC
Calloway, Warren L., Jr.	FR	4744	312 Tucker	Te-4-9739	206 Richmond, Hamlet, NC
Calvert, Edward S. M., III	JR		G-26, Married Stu. H.	Te-4-0164	264 James River Dr., Newport News, Va.
Calvert, Wallace W.	SC	3562	230 Syme	Te-2-9150	Rt. 3, Box 270, Mt. Vernon, Ind.
Calvin, Samuel Robert	JR	3576	312 Syme	Te-2-9232	309 Jones St., Hollidaysburg, Pa.
Cameron, Lucie B.	GR		29 Enterprise St.	Te-4-6270	Granja Agricola Palmira, Colombia
Cameron, William John	SO			Te-3-3447	3726 Camley Ave., Raleigh, NC
Campbell, Donald B., Jr.	SR			Te-3-8543	2125 Noble Rd., Raleigh, NC
Campbell, Malcolm James	JR	3580	316 Syme	Te-2-9222	223 W. Vance, Laurinburg, NC
Campbell, Melvin D.	FR	4294	333 Turlington	Te-2-9192	R.F.D. 4, Sanford, NC
Campbell, Preston M.	FR	3360	228 Bagwell	Te-2-9131	344 Cross Creek St., Fayetteville, NC
Campbell, Randolph N.	JR			Va-8-186	11 Dixie Trail, Raleigh, NC
Campbell, Robert L.	SR		708 St. Mary's St.	Te-2-0682	1004 4th Ave. Dr. N.W., Hickory, NC
Campbell, Stephen E.	FR	4533	318 Owen	Te-4-9300	818 Hillcrest, Gastonia, NC
Campbell, William H.	SO		103 Chamberlain		623 Lincoln Rd., Salisbury, NC
Campbell, William Thomas	JR	3002	102 Watauga	Te-2-9447	Rt. 1, Rockingham, NC
Campbell, Yates W.	JR		2512 Hillsboro	Te-3-6362	105 Firestone Cir., Gastonia, NC
Casper, Nyal Dwight	JR	4364	19 Stadium		Box 33, Forest, Va.
Canady, Kenneth S.	SO	4314	207 Berry	Te-2-9363	301 Montclenn, High Point, NC
Canady, Maurice F., Jr.	FR		105 Montgomery St.	Te-4-6160	105 Montgomery St., Raleigh, NC
Cann, Thong Quang	GR	5876	Alumni Bldg.	Te-2-9322	31, Tranh Dao Hue, Viet Nam
Cannon, Benny Lee	SO	15127	313-D Bragaw	Te-4-9179	3330 Nato Rd., Fayetteville, NC
Canter, Richard K.	FR	4223	126 Turlington	Te-4-9279	North Wilkesboro, NC
Cantey, Frederick Hall	FR	3016	116 Watauga	Te-2-9447	1405 Dogwood Dr., Kingston, Tenn.
Cappe, Anthony S.	SR	4225	128 Turlington	Te-4-9279	Rt. 3, Smithfield, NC
Cappe, Jerry W.	FR	7509	Stat. B, Raleigh	Te-2-2581	Bcx 7509, Stat. B, Raleigh, NC
Cappe, Thomas E.	FR	4733	267 Tucker	Te-2-9387	701 Rose St., Rocky Mount, NC
Carawan, Charles W.	FR	4645	135 Tucker	Te-2-9388	Rt. 1, Box 132, Pantego, NC
Carawan, Larry B.	SO	3581	317 Syme	Te-2-9222	906-A W. 3rd St., Greenville, NC
Carballo, Alfredo	GR				2717 Dorchester Ct., Raleigh, NC
Card, James C.	FR		405 N. Boylan Ave.	Te-2-4922	405 N. Boylan Ave., Raleigh, NC
Cardenas, Hugolino	GR		480 Williams Hall		Vereda 3 #17, Pro-Patria, Caracas-Venezuela
Carrey, Java O.	JR		2718 Clark	Te-2-6451	Rt. 5, Burlington, NC
Carrey, John F.	FR	4554	340 Owen	Te-4-9836	3713 Felhan Lane, Charlotte 7, NC
Carlyle, Robert C.	FR		1908 Park Dr.	Te-2-5406	1118 B. West Rowan St., Fayetteville, NC
Carmichael, Dennis H.	SR	4792	365 Tucker	Te-2-9323	R.S.H., Orangeburg, NY
Carmichael, Donald T.	UN	5665	2514 Clark	Te-3-4522	1427 Beaver Dam Rd., Raleigh, NC
Carnes, Ransome B., Jr.	SR				938 Wilmington Terr., Raleigh, NC
Carnes, Robert M.	FR		6 Enterprise St.	Te-2-4788	701 Park Lane, Laurinburg, NC
Carpenter, Elmer Lee	SO	4656	149 Tucker	Te-2-9388	Rt. 3, Newland, NC
Carpenter, Eugene R., Jr.	SO	4597	63 Owen	Te-2-9142	3620 Park R., Charlotte 9, NC
Carpenter, George P.	FR	4763	332 Tucker	Te-4-9739	Rt. 1, Cherryville, NC
Carpenter, James W.	SO	15393	416-B Bragaw	Te-4-9754	Rt. 6, Box 79, Durham, NC
Carpenter, Jimmy Gray	SR		8 Ferndell La.	Te-2-1755	Rt. 5, Monroe, NC
Carpenter, Joseph M.	SO	4461	204 Owen	Te-2-9252	Waglam, NC
Carpenter, Lewis F.	SR	15348	320-B Bragaw	Te-4-9253	Rt. 1, Dallas, NC
Carpenter, Nevette M.	JR	3317	117 Bagwell	Te-4-9219	430 W. Main St., Elkin, NC
Carpenter, William					
Carr, John C.	SR	3206	106 Gold	Te-2-9263	Rt. 1, Box 253, Goldsboro, NC
Carr, John W.	FR	4327	307 Berry	Te-2-9363	12 Bull Mtn. Rd., Asheville, NC
Carr, Stanley G.	JR		A-25, Married Stu. Housing	Va-8-3868	A-25, Married Stu. Housing, State College Stat.
Carr, Theodore R., Jr.	JR				1302 Branch, Raleigh, NC
Carr, Thomas McLean, Jr.	SO	3721	121 Becton	Te-2-9256	113 Warsaw Rd., Clinton, NC
Carr, William D.	JR			Va-8-5280	1302 Branch St., Raleigh, NC
Carrier, Albert H.	JR	4342	9 Berry	Te-2-9350	1035 Guilford, Charlotte, NC
Carriker, William R.	JR		2504 Vanderbilt Ave.		1815 Logie Ave., Charlotte, NC
Carringer, John McClung	SR	15186	417-A Bragaw	Te-4-9757	Andrews, NC
Carrington, Thomas W.	SR	3754	220 Becton	Te-2-9334	Williamsboro St., Oxford, NC
Carroll, Adger B.	GR			Te-2-0462	F-3 Shelton Apts., Raleigh, NC
Carroll, Edgar Morris, Jr.	JR			Va-8-5701	2503 1/2 Everett Ave., Raleigh, NC
Carroll, Henry C.	FR		202 Ashe Ave.		2 Southview Rd., Chappazua, NY
Carroll, William B.	FR	4156	227 Alexander	Te-4-9746	336 Ridgewood Ave., Charlotte 9, NC
Carruthers, Woodrow W., Jr.	SR		1720 Hillsboro	Te-4-9451	806 Cypress, Greensboro, NC
Carson, Edward	FR		613 S. East St.	Te-2-7269	613 S. East St., Raleigh, NC
Carson, John P.	FR	4463	206 Owen	Te-2-9410	921 Boulevard, Statesville, NC
Carter, Alexander Lewis	JR		1720 Hillsboro	Te-4-0451	Rt. 1, Indian Springs, Tenn.
Carter, Billy Wayne	SR	15109	305*B Bragaw	Te-4-9179	R.F.D. 2, Middlesex, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Carter, Cecil M.	SR	15412	426-A Bragaw	Te-4-9754	2201 Davis St., Savannah, Tenn.
Carter, David A.	WE	4279	317 Turlington	Te-2-9192	628 Thomas Rd., Lynchburg, Va.
Carter, David H.	SO	15081	217-B Bragaw	Te-2-9185	503 Mondragon, Ft. Bragg, NC
Carter, Donald B.	SR		201 1/2 Park Ave.		Rt. 5, Fayetteville, NC
Carter, George R., Jr.	FR	3711	111 Becton	Te-2-9256	Rt. 4, Danville, Va.
Carter, Joseph B.	UN		10 Scott Hall	Ext. 474	Rt. 1, Box 366, Eden Forest, Raleigh, NC
Carter, Robert A.	FR	4508	257 Owen	Te-2-9410	314 E. Farris, High Point, NC
Carter, Stanford Lee	FR	3049	313 Watauga	Te-2-9488	1016 S. Blvd., Charlotte, NC
Carter, William A., Jr.	FR	3048	312 Watauga	Te-2-9488	1715 S. Fayetteville, Asheboro, NC
Cartwright, William R.	FR	4130	138 Alexander	Te-2-9257	Rt. 3, Box 857, Elizabeth City, NC
Carver, Carlton B.	SR			Te-4-0130	Rt. 4, Raleigh, NC
Carver, James W.	SR		125 Hawthorne Rd.	Te-2-1183	Rt. 7, Box 87, Fayetteville, NC
Carver, Luther W.	WE	4185	322 Alexander	Te-2-9349	Rt. 1, Box 171, Hudson, NC
Carver, William B.	SO	15262	202-D Bragaw	Te-4-9123	1220 Oxford Rd., Roxboro, NC
Cary, Aubrey M.	JR	15349	320-C Bragaw	Te-4-9253	822 Sedgefield R., Charlotte, NC
Casas, Eduardo Dias	GR		203 Chamberlain		Sevilla 910-2, Mexico 13, D.F. Mexico
Cash, Thomas D., Jr.	FR	4256	228 Turlington	Te-2-9297	3609 Kingston Rd., Winston-Salem, NC
Cashatt, Everett W.	GR		2717 Vandenberg Ave.	Te-2-2126	Draper Rd., Spray, NC
Cashetta, Alice F.				Va-8-3825	3016 Farrior Rd., Raleigh, NC
Cashwell, Arthur C., Jr.	FR	4689	218 Tucker	Te-4-9828	1912 Lock Comod Ct., Winston-Salem, NC
Casper, Don W.					101 Person St., Lenoir, NC
Cassanova, Robert A.	FR	4277	315 Turlington	Te-2-9192	5433 Wedgewood Dr., Charlotte, NC
Casteen, Daniel R.	JR	15297	220-D Bragaw	Te-4-9123	34 Terrace Walk, Wilmington, NC
Cates, James W.	JR	4444	153 Owen	Te-2-9115	Rt. 2, Hurdle Mills, NC
Cates, Jan C.	SR		308 Horne St.	Te-2-7050	203 Tarplex, Burlington, NC
Catherwood, George A.	SO		203 Groveland Ave.	Te-4-8486	809 W. Front St., Burlington, NC
Cathy, Raymond H.	FR	3335	203 Bagwell	Te-2-9131	320 Plymouth Ave., Charlotte, NC
Cathy, Robert E.	FR	4774	347 Tucker	Te-2-9323	Rt. 3, Box 518, Waynesville, NC
Catlett, Arthur D.	WE	4128	135 Alexander	Te-2-9257	410 W. Kine St., Burlington, NC
Catlett, Roy B.	JR	1511	405-D Bragaw	Te-4-9179	412 Griffith St., Thomasville, NC
Cato, Joseph Charles	SO	15343	518-A Bragaw	Te-4-9253	810 Lamar Ave., Charlotte 4, NC
Cato, Russel L., Jr.	FR	4317	210 Berry	Te-2-9363	122 W. End Blvd., Emporia, Va.
Caulbe, Berry W.	JR	15223	108-A Bragaw	Te-2-9180	2402 Lovell Rd., Gastonia, NC
Caulbe, Harold	SE		1216 Franklin Rd.		208 N. Fairview Dr., Lenoir, NC
Caulley, William B.	FR	4659	152 Tucker	Te-2-9388	Rt. 5, Kinston, NC
Cauley, Hartley D.	FR	4524	307 Owen	Te-4-9836	Rt. 10, Box 142, Greensboro, NC
Cauley, Joyce Anne	GR		610-G Woodburn Rd.	Te-4-4217	1206 St. Patrick St., Tarboro, NC
Cauthorn, Hurley S.	JR	4228	133 Turlington	Te-4-9279	Box 139-B1, Rt. 2, Pump Rd., Richmond, Va.
Cavenaugh, Roy S., Jr.	FR		234 1/2 Clark		312 College St., Wallace, NC
Cavenses, Joseph W.	FR	4472	217 Owen	Te-2-9410	210 W. John, Mt. Olive, NC
Cobe, Jerry M.	JR		2209 1/2 Hope St.	Te-4-3244	1802 Maryland Ave., Durham, NC
Contini, Barry A.	GR	216	216 Page Hall	Ext. 304	404 S. Ann St., Lancaster, Pa.
Cerasi, John	JR		2601 Clark		1240 Dayton St., Camden 4, NJ
Chairabarty, Mrinal Kanti	GR	5797	409 Williams Hall		21/A Harabli Ritter St., Calcutta 3, India
Chamblor, Douglas S.			152 Williams Hall	Ext. 324	3359 Hampton Rd., Raleigh, NC
Chamblee, Edythe B.					3359 Hampton Rd., Raleigh, NC
Champion, Jan Horace	SO	3005	105 Watauga	Te-2-9447	504 Peartree, Raleigh, NC
Champion, Roy L., Jr.	GR		837 Bryan	Te-3-6954	1601 Branch, Wilson, NC
Chandler, Belton W.	FR	4776	349 Tucker	Te-2-9323	Rt. 1, Oakboro, NC
Chandler, James L., Jr.	JR	4695	224 Tucker	Te-2-9387	Box 36, Ruffin, NC
Chandler, Lawrence R., Jr.	FR	4678	205 Tucker	Te-2-9387	1406 Drumcliffe Rd., Winston-Salem, NC
Chandler, Ronald V.	FR	4428	133 Owen	Te-2-9115	Rt. 1, Mt. Gilead, NC
Chang, Se Hoon		5714	State Col. Stat.		114, Harrison Ave., Raleigh, NC
Chann, Earl Kai	PRO		10 Enterprise St.		267 Brevoort St., Kew Gardens 15, NY
Chad, Ping-Ching	JR				B-12, Daisy St., Raleigh, NC
Chaplin, Robert L.	GR		54-C Davie Cir.	Te-7-3944	54-C Davie Cir., Chapel Hill, NC
Chapman, Billy Joe	FR	4305	105 Berry	Te-2-9350	Rt. 3, Box 66, Kannapolis, NC
Chapman, George W., Jr.	FR	3591	327 Syme	Te-2-9227	3138 Sunset Dr., Charlotte, NC
Chapman, Larry F.	JR		1508 Frank St.		2425 Vail Ave., Charlotte, NC
Chappell, Clifford S.	WE	3347	215 Bagwell	Te-2-9131	Rt. 1, Box 171H, Raleigh, NC
Chappell, Jesse, Jr.					307 Whitaker Mill Rd., Raleigh, NC
Chappell, Joe S.	GR				Rt. 1, Varina, NC
Chappell, William H.	FR	4175	312 Alexander	Te-2-9349	Rt. 1, Box 278, Elkin, NC
Charles, Ernest G.	SR			Te-2-0212	7 S. West St., Raleigh, NC
Chatman, James O.	GR		1501 Benehan St.	Te-4-0271	608 Summit St., Winston-Salem, NC
Chavengsakongkram, Chusaf	GR		6 Enterprise St.	Te-2-4788	8 Sukhothai Rd. Lane 5, Bangkok, Thailand
Chavis, Crafton	SO	3378	312 Bagwell	Te-4-9151	Rt. 1, Box 368, Rowland, NC
Cheatham, John G.	SO	15346	318-E Bragaw	Te-4-9253	101 Forest Rd., Oxford, NC
Chedester, Alan M.	GR		1709 Hillsboro	Va-8-2104	809 Enderby Dr., Alexandria, Va.
Cheek, Randall P.	JR			Te-2-3041	1702 N. Blount St., Raleigh, NC
Cheek, Walter D.	SR	15172	409-D Bragaw	Te-4-9757	2121 Combs St., Burlington, NC
Cheesman, Randolph M.					3511 Old Chapel Hill Rd., Durham, NC
Chenworth, Joseph A.	JR	4556	343 Owen	Te-4-9300	2014 Perry Ave., Wilmington, NC
Cherry, James S.	UN			Te-2-4165	1522 Hanover, Raleigh, NC
Cherry, Joseph E.	WE	4116	120 Alexander	Te-2-9257	1415 Gay St., Rocky Mount, NC
Cherry, Richard H.	SO	3315	115 Bagwell	Te-4-9129	Rt. 2, Williamson, NC
Cherry, Solomon Thad	WE		2232 Hillsboro	Te-3-8716	205 Hull Rd., Fayetteville, NC
Chew, Robert L., Jr.	FR	4213	116 Turlington	Te-4-9279	923 Hawthorne, Winston-Salem, NC
Chick, Garland F.	JR			Te-4-8630	2420 Greenway Ter., Raleigh, NC
Chick, Sara C.	Un			Te-4-8630	2420 Greenway Ter., Raleigh, NC
Childers, Donald D.	JR	4559	348 Owen	Te-4-9300	1101 W. C St., Kannapolis, NC
Childers, Carlyle D.	FR	4256	228 Turlington	Te-2-9297	P.O. Box 492, Canton, NC
Childers, Charles C.				Va-8-2443	2128 Mayview Rd., Raleigh, NC
Childress, Michael Lee	SR	4803	53 Tucker	Te-2-9186	Rt. 1, Gibsonville, NC
Childress, Richard Clark			3821 W. Blvd.	Va-8-6569	1532 Andover Ave., Greensboro, NC
Chiles, Robert M.	GR		3414 Hillsboro	Te-3-4808	327 Carbondon Rd., Sanford, NC
Chimos, Peter John	FR			Te-2-3098	12 Turner St., Raleigh, NC
Chin, Cheng-Yuan	GR	3235	311 Gold	Te-2-5263	Pingtung, Taiwan, China
Chipley, Thomas J.	SO	15292	218-C Bragaw	Te-4-9123	2619 Providence Rd., Charlotte, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Chipman, Joseph A.			202 Groveland Ave.		Box 103, Beaufort, NC
Cho, Ching-Chao			P.O. Box 5835, Raleigh		
Choi, Dong Myung	SR			Te-2-4788	6 Enterprise St., Raleigh, NC
Choi, Soo Young		5768	State Col. Stat.		25, Chang-chon-dong, Seoul, Korea
Choplin, Larry E.	JR	15190	2119-S Bragaw	Va-85312	2907 Reynolda Rd., Winston-Salem, NC
Christenberry, John S.	SR		210 Park Ave.	Va-8-5817	210 Park Ave., Raleigh, NC
Christenbury, Gerald D.	FR	3348	216 Bagwell	Te-2-9131	Rt. 1, Harrisburg, NC
Christenbury, Silas Ted	SR	15253	124-C Bragaw	Te-2-9180	Rt. 1, Harrisburg, NC
Christensen, Robert L.	GR			Ext. 492	227 Grand Ave., Raleigh, NC
Christiansen, John W., Jr.	SO		2211 Hope St.	Te-4-7995	Rt. 4, Box 300, Whiteville, NC
Christopher, John O.	FR	4495	241 Owen	Te-2-9252	230 Lawndale Dr., Greensboro, NC
Christopher, William A.	SR	15379	410-A Bragaw	Te-4-9754	Sycamore Rd., Franklin, Va.
Church, David B.	FR	4660	153 Tucker	Te-2-9388	709 Hosp. Ave., Lenoir, NC
Church, Thomas C., Jr.	FR	4533	318 Owen	Te-4-9300	Linwood Rd., Gastonia, NC
Cikansk, Harry A., Jr.	SR		1216 Franklin Rd.		Rt. 3, Box 238, Lenoir, NC
Clapp, John G., Jr.	GR		186 Williams Hall	Ext. 324	1324 Canterbury Rd., Raleigh, NC
Clark, Allen D.	JR	15048	125-D Bragaw	Te-2-9129	515 Spruce St., High Point, NC
Clark, Carl E.	JR		Married Stu. Housing		Rt. 1, Box 65, Elizabethtown, NC
Clark, Caswell W.	GR		1101 Canterbury Rd.	Te-2-9586	126 W. Clay St., Mebane, NC
Clark, Donald E.	JR	4710	240 Tucker	Te-2-9387	2007 E. Ozark, Gastonia, NC
Clark, Donald L.	SO	4331	311 Berry	Te-2-9363	5010 Longfellow, McLean, Va.
Clark, Dora Ann	SO				1202 Highland Rd., Gardner, NC
Clark, Edward T.	SO	15083	217-D Bragaw	Te-2-9185	412 Franklin, Mt. Airy, NC
Clark, Evelyn Dee	GR		8 Maiden Lane	Te-4-5087	P.O. Box 241, Beaufort, NC
Clarke, Francis I.	SR		4111 Garland Dr.	Te-2-1935	601 N. Greene St., Wadesboro, NC
Clark, Hugh Alexander	SR		1216 Jones Franklin		Rt. 1, Box 65, Elizabethtown, NC
Clark, Jack A.	SO		120 Forest Rd.		701 N. Endor St., Sanford, NC
Clark, James N.	SR	15275	210-A Bragaw	Te-4-9123	315 Woodlawn Ave., Weldon, NC
Clark, James W.	UN	3035	217 Watauga	Te-2-9132	1545 Jordan Dr., Winston-Salem, NC
Clark, Joseph W.					4421 N. Blvd., Raleigh, NC
Clark, Marion M.	SO	4633	122 Tucker	Te-2-9388	Rt. 1, Canton, NC
Clark, Neil H., Jr.	SO	5566		Te-4-8227	No. 5, S. Bolin Heights, Chapel Hill, NC
Clark, Oscar M.	SO	3792	324 Becton	Te-2-9372	Rt. 7, Fayetteville, NC
Clark, Robert H., Jr.	FR	4564	258 Owen	Te-2-9252	Eagles Nest Rd., Waynesville, NC
Clark, William C.	FR	4778	351 Tucker	Te-2-9323	4615 Hilltop Rd., Greensboro, NC
Clarke, Bernard S., Jr.	SO		124 Groveland Ave.	Te-2-7207	1692 Fairfax Ave., Petersburg, Va.
Clarke, Francis I.	GR			Ext. 432	601 N. Greene St., Wadesboro, NC
Clarke, Robert E.	SR		1124 Shephard St.	Va-8-2134	4113 N. Green St., Morganton, NC
Claud, John T., Jr.	FR	4465	208 Owen	Te-2-9410	Drewryville, Va.
Claus, Thomas M.	FR	4436	143 Owen	Te-2-9115	Rt. 1, Box 254, Kington, NY
Clayton, Bennie Ed., Jr.	GR			Te-3-4987	2164 Park Ave., Raleigh, NC
Clayton, John G.	SO	15391	414-E Bragaw	Te-4-9754	311 Barnette, Roxboro, NC
Clayton, Victor E., Jr.	FR	3509	109 Syme	Te-2-9288	110 Academy, Roxboro, NC
Clements, David R.	FW			Te-4-6867	301 Acorn St., Raleigh, NC
Clemmer, William H.	SR	15088	221-A Bragaw	Va-8-9590	322 Quaker Lane, High Point, NC
Clemmons, Gene A.	SR	3813	111 Becton	Te-2-9261	Rt. 2, Box 120, Clayton, NC
Cleveland, Allen J., III	JR	4173	300 Alexander	Te-2-9349	Rt. 2, Matthews, NC
Clifton, Frank T., Jr.	SR		Q-201 Married Stu. Housing		Church, Mt. Olive, NC
Clifton, Rodney F.	SO	15034	119-B Bragaw		558 Country Club Rd., Mt. Airy, NC
Clinard, Kay N.	FR	4570	359 Owen	Te-4-9836	707 Park St., High Point, NC
Cline, Belle K.					Pooler Rd., Raleigh, NC
Cline, Donald L.	JR	15021	111-A Bragaw	Te-2-9127	Rt. 2, Gold Hill, NC
Cline, James H., Jr.	JR		42 Dixie Dr.		Rt. 1, Bryson City, NC
Clofelter, Darrell J.	FR	3735	201 Becton	Te-2-9334	Rt. 2, Lexington, NC
Cloer, Ronnie M.	FR	4494	240 Owen	Te-2-9410	214 S. Willow St., Gastonia, NC
Clonts, James W.	SO	4354	9 Stadium		105 S. Sharon Rd., Lenoir, NC
Clonts, Lew Gary	FR		10 Enterprise		Box 301, Granite Falls, NC
Clowse, Thomas H.	SO	4413	118 Owen	Te-2-9437	4339 Oldtown Dr., Winston-Salem, NC
Coats, Douglas E.	FR	3569	305-Syme	Te-2-9222	Box 374, Roxboro, NC
Coats, George H., III	UN			Va-8-5000	633-D Daniels St., Raleigh, NC
Cobb, Alton Parks, Jr.	FR	4145	216 Alexander	Te-4-9746	Main St., Battleboro, NC
Cobb, Aubrey W.	SO	3129	303 Fourth	Te-2-9159	Rt. 2, Elm City, NC
Cobb, Clyde C.	SO	3521	121 Syme	Te-2-9288	138 Morris Cir., Edenton, NC
Cobb, John C.	FR		3414 Hillsboro	Te-3-4808	8 W. Kensington Rd., Asheville, NC
Cobb, Tommy	FAC			Te-4-9563	5105 Wickham, Raleigh, NC
Coble, Charles J.	UN		2209 1/2 Hope	Te-4-3244	618 Presbyterian Ave., Laurinburg, NC
Coble, Charles R., Jr.	FR	3519	119 Syme	Te-2-9288	820 Central Ave., Burlington, NC
Coble, David S.	JR	3053	317 Watauga	Te-2-9488	Rt. 2, Garland, NC
Coble, Douglas F.	SR		17 Bagwell Ave.	Te-4-5031	17 Bagwell Ave., Raleigh, NC
Coble, James A.	SR		Q-324, Married Stu. Housing		Rt. 3, Liberty, NC
Coble, Wesley Milton	FR	4170	304 Alexander	Te-2-9349	112 Parker St., Smithfield, NC
Cochran, James D.	FR	3217	205 Gold	Te-2-9263	65 Newfound, Canton, NC
Cochran, Robert G.	SO	3338	206 Bagwell	Te-2-9131	P.O. Box 32, Robersonville, NC
Cochrans, Charles T.	SO	4318	211 Berry	Te-2-9363	601 Old Winston Rd., High Point, NC
Cocke, William Thomas III	FR	4184	302 Alexander	Te-2-9349	6124 Candlewood Dr., Charlotte 9, NC
Cockerham, Zebulon V.	FR	4191	328 Alexander	Te-2-9349	1625 Sterling Rd., Charlotte, NC
Coffey, Roy Clifford	GR				18 Horne St., Raleigh, NC
Coffey, Bertram W.	SO	3132	306 Fourth	Te-2-3429	Box 902, Rt. 1, Sanford, NC
Coffey, Barry W.	FR	4430	136 Owen	Te-2-9473	Rt. 5, Lenoir, NC
Coffey, Kay Y.	SO	4365	20 Stadium		1519 S. Boundary, Alken, SC
Coffey, Thomas Gatewood	SO	15266	204-D Bragaw	Te-4-9123	1720 Canterbury Rd., Raleigh, NC
Coggins, Thomas E.	FR	4734	301 Tucker	Te-2-9323	Rt. 1, Sanford, NC
Coggins, Nolan S.	SO	15081	217-B Bragaw	Te-2-9185	221 Moon St., Thomasville, NC
Cohen, Arnold H.	GR		304 E. Park Dr.	Te-2-7638	1215 E. 10th St., Brooklyn, NY
Cole, Donald W.	FR	4658	151 Tucker	Te-2-9367	1114 Elwell, Greensboro, NC
Cole, George W.	FR	3799	331 Becton	Te-2-9372	York Rd., Jamison, Pa.
Cole, Robert E.	SR			Te-2-0554	1616 Harper Rd., Raleigh, NC
Cole, Weldon R.	SO	3763	229 Becton	Te-2-9334	801 Grace St., High Point, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Coleman, Charles B.	SO	4584	150 Owen	Te-2-9142	Rt. 2, Box 44, Tabor City, NC
Coleman, Jackson K.	SD	15252	124-B Bragaw	Te-2-9180	Hiaessees, Murphy, NC
Coleman, Louis, Jr.	SR		Q-224, Married Stu. Housing	Te-3-1417	Q-224, Married Stu. Housing, State College Stat.
Coleman, Milton F.	FR	4739	306 Tucker	Te-4-9739	Latta, Rt. 1, Latta, SC
Coleman, Robert Carey	FR	4368	23 Stadium		46, 1, Latta, SC
Collette, Dan W.	SO	4598	4 Owen	Te-2-9142	1617 W. 4th St., Gastonia, NC
Collingwood, George H.	FR	4266	501 Turlington	Te-2-9192	1529 Glenn School Rd., Durham, NC
Collins, Anthony E.	SO	15058	205-B Bragaw	Te-2-9185	2929 Reynolds Park Rd., Winston-Salem, NC
Collins, Glenn E.	FR	4325	305 Berry		401 S. Ashe, Elizabeth City, NC
Collins, Hubert F.	JR	5566		Te-4-8227	715 Barnesdale Rd., Winston-Salem, NC
Collins, James F.	FR	3817	15 Becton	Te-2-9261	1101 Vickers Ave., Durham, NC
Collins, James Miller	SR				781 Harp Terr., Raleigh, NC
Collins, James R.	JR			Te-3-0828	409 Glascock St., Raleigh, NC
Collins, Roger E.	JR		4700 Hillsboro	Te-2-9763	Rt. 4, Box 8, Sparta, NC
Colombo, Ronald W.	SR		101-B Chamberlain		132 A. Middletown Rd., Fear River, NY
Colson, Charles E.	SR		1718 Hillsboro	Va-8-4464	Rt. 1, Morwood, NC
Coltrane, Robert I.	GR			Te-4-6532	900 Boylan Cr., Raleigh, NC
Colvin, Allan E.	FR	4424	129 Owen	Te-2-9437	613 Mangum, Reidsville, NC
Combs, Clarence L.	SR	15136	317-B Bragaw	Te-4-9179	312 E. Virginia Ave., Draper, NC
Comer, Thomas C.	JR	15013	107-A Bragaw	Te-2-9425	Rt. 1, Cameron, NC
Compton, Daniel W.	FR	3536	207 Syme	Te-2-9288	904 Spring St., Durham, NC
Compton, James S.	JR		I-16, Married Stu. Housing		Box 234, Cedar Grove, NC
Compton, Larry T.	FR	4721	254 Tucker	Te-2-9387	Box 387, Hillsboro, NC
Comstock, Gilbert L.	GR		N-14, Married Stu. H.	Te-4-0583	Eddyville, Iowa
Come, Cesar	SO		1710 Hillsboro	Te-4-2601	506 Cornwallis Dr., Greensboro, NC
Cone, Harold E.	JR	15324	308-C Bragaw	Te-4-9253	Rt. 1, Winston-Salem, NC
Cone, Worth F.	SR	1100	1100 Glenwood Ave.	Te-4-8386	Spring Hope, NC
Conger, George A.	GR		D-24, Married Stu. Housing		109 Forest Ave., Cranford, NJ
Conkle, M. Thompson	GR		11 Enterprise St.	Te-2-5449	5951 Libbie St. N.W., Canton 8, Ohio
Connell, Oscar W., Jr.	JR		2601 Clark	Te-2-8631	8512 Lawyers Rd., Charlotte, NC
Connelly, John G.	JR		1720 Hillsboro	Te-4-0451	1208 Buchanan St., Charlotte, NC
Connelly, Raymond A.	FR	3013	113 Watauga	Te-2-9447	2, Birch Lane, Valley Stream, NY
Conner, Bobby Joe	JR	4633	122 Tucker	Te-2-9388	Rt. 3, Box 442-B, Wilmington, NC
Conner, Philip G.	JR		3414 Hillsboro	Te-3-4808	677 Colville Rd., Charlotte, NC
Conner, Robert W.	SO	15406	422-C Bragaw	Te-4-7954	Clover, Va.
Connolly, Billy Dean	SO	4510	259 Owen	Te-2-9252	Rt. 3, Box 131, Bakersville, NC
Connor, Buddy W.	SO	4406	109 Owen	Te-2-9115	Rt. 4, Shelby, NC
Connor, Laurence M., Jr.	GR		210 Dry Ave., Cary		Barnwell, SC
Conway, Wallace E.	SR		322 S. O'Neil St.		322 S. O'Neil St., Clayton, NC
Cook, Charles W.	SR	15309	226-C Bragaw	Te-4-9123	Calyso, NC
Cook, Christopher D.	FR	3043	307 Watauga	Te-2-9488	215 Manhasset Woods Rd., Manhasset, NY
Cook, Clifton G.	FR	3334	202 Bagwell	Te-2-9131	1130 East 4th St., Charlotte, NC
Cook, Harold Craig	SO	15338	316-A Bragaw	Te-4-9253	109 W. John St., Mt. Olive, NC
Cook, Jerry A.	SO		103 Chamberlain St.		1804 Mansfield St., Winston-Salem, NC
Cook, Lawrence D.	FR	3046	310 Watauga	Te-2-9488	1507 Pine, Lumberton, NC
Cook, John Hugh	SR		3414 Hillsboro	Te-3-4808	128 S. Main St., Marion, NC
Cook, Philip D.	SO	4704	233 Tucker	Te-2-9380	Box 336, Rt. 1, Mt. Airy, NC
Cook, Russell A., Jr.	FR		13 Maiden Lane	Te-3-6979	26 Hillside Ave., Greaskill, NJ
Cook, Thomas E.	GR		49 W. Dixie Dr.	Va-8-6537	1718 W. Jean St., Tampa, Fla.
Cooke, Charlie H.	FR	3117	107 Fourth	Te-2-9159	Rt. 1, Lenoire, NC
Cooke, David R.	SR			Te-3-6616	3344 Hampton Rd., Raleigh, NC
Cooke, James R.	SE	15259	202-A Bragaw	Te-4-9123	Rt. 2, Box 251, Huntersville, NC
Cooke, John M.	FR	4666	159 Tucker	Te-2-9388	621 Hayes St., Asheville, NC
Cooke, Lloyd A.	SO	15299	222-B Bragaw	Te-4-9123	212 Milford Hills Rd., Salisbury, NC
Cooke, Oren Boyd	FR		849 Bryan St.	Te-2-8278	Rt. 1, Maiden, NC
Cooksey, Richard H.	FR				
Coon, Donald W.	FR	4441	150 Owen	Te-2-9115	107 Vine St., Havelock, NC
Cooper, Barry E.	JR		2333 Bernard St.	Te-3-7384	1425 Summit Ave., Fayetteville, NC
Cooper, Dale E.	GR		2339 Grant Ave.	Te-3-8611	Rt. 2, Roosevelt, Okla.
Cooper, David E.	SR			Te-3-5709	514 Phelps Ave., Raleigh, NC
Cooper, James Z.	FR	4489	235 Owen	Te-2-9252	66 10th St., East Laurinburg, NC
Cooper, Robert W.	SO	15276	210-B Bragaw	Te-4-9123	North, SC
Cooper, William D.	SO		2513 Clark	Te-2-0268	Park Ave., Marion, NC
Cope, Richard O.	SR		1208 College Pl.	Te-3-9080	1208 College Place, Raleigh, NC
Cope, Roy D.	SR		E-22 Married Stu. Housing		Rt. 4, Box 386, Lexington, NC
Copeland, Randal Lee	FR	4222	125 Turlington	Te-4-9279	Rt. 7, Burlington, NC
Coppedge, George A.	SO	15110	305-C Bragaw	Te-4-9179	211 Cedrow, High Point, NC
Corbett, Horace G.	JR		7 Enterprise St.	Te-4-0435	Rt. 1, Fountain, NC
Cordell, Charles E.	JR		Rt. 1, Cary		15 Blalock, Asheville, NC
Cordell, Craig A.	FR			Te-4-4668	1106 Brighton Rd., Raleigh, NC
Cordell, Jerry W.	SO			Te-4-4668	1106 Brighton Rd., Raleigh, NC
Cordell, Vance H., Jr.	FR	15368	404-B Bragaw	Te-4-9754	19-5 College Village, Winston-Salem, NC
Corder, Thomas G.	FR	4487	232 Owen	Te-2-9252	Rt. 1, Elkin, NC
Cornelius, Clarence P.	SO		1718 Hillsboro	Va-8-4464	Rt. 1, Troutman, NC
Cornelius, Ronald Joe	FR	3758	224 Becton	Te-2-9334	588 Swannanoa Ave., Asheville, NC
Cornwell, Jamie E.	JR		204 Purchase		Box 9038, Asheville, NC
Cornwell, Larry Ray	SO	3249	201 Welch	Te-2-9119	Rt. 1, Shelby, NC
Corpening, Arthur G.	JR		2612 Clark	Te-2-9484	High Point, NC
Correll, Edward Max	SR		8114 Glenwood Ave.	Te-3-3585	900 S. Johnson St., Monroe, NC
Corrither, Joseph F., Jr.	SFEC		1808 Park Dr.	Te-2-7125	Box 92, Landis, NC
Coagrove, Robert D.		4753	322 Tucker	Te-2-9323	712 Water, N. Charleston, Fa.
Cost, John Q.	GR	205	205 Alumni Bldg.	Te-2-9322	371 N. 4th Ave., Highland Park, NJ
Costner, Larry Tom	SR	15392	416-A Bragaw	Te-4-9754	Box 17, Cassar, NC
Coston, Benjamin M.	JR		1718 Hillsboro	Va-8-4464	Rt. 1, Box 220, Hubert, NC
Cottrhan, Frank M.	JR	4221	124 Turlington	Te-4-9279	112 E. Steel, Salisbury, NC
Cotton, Lawrence M.	FR	4207	110 Turlington	Te-4-9279	2803 Stephenson, Roanoke, Va.

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Cottle, James H.	SR	4477	222 Owen	Te-2-9252	Sycamore, Rose Hill, NC
Couch, John E.	SO			7-7842	2920 Chapel Hill Rd., Durham, NC
Couchell, Gus F.	SR	15356	324-B Bragaw	Te-4-9253	512 Sunnyside, Charlotte, NC
Coulter, Harvey M.	FR	4174	311 Alexander	Te-2-9349	Box 87, Maiden, NC
Council, Donald O.	FR	4742	309 Tucker	Te-2-9323	Rt. 3, Durham, NC
Council, George S., Jr.	FR	5658		Te-4-5211	Whiteoak, NC
Coutouzis, William E.	SR	3031	213 Watauga	Te-2-9132	2528 McNeil Cir., Fayetteville, NC
Covill, James Lewis	GR	15280	212-B Bragaw	Te-4-9123	15 S. 8th St., Wilmington, NC
Coville, Edward M.	SO	4674	201 Tucker	Te-4-9828	Atkinson, NC
Covington, James Roy	JR	15134	317-B Bragaw	Te-4-9179	1702 E. 5th St., Lumberton, NC
Covington, Jimmy Ray	FR	4782	355 Tucker	Te-2-9323	1509 Poston Cir., Gastonia, NC
Cowardin, Robert L.	GR			Te-4-8867	2337 McMillan, Raleigh, NC
Cowles, Reuben R., Jr.	FR	3368	302 Bagwell	Te-4-9151	Box 212, Statesville, NC
Cox, Alfonso W., Jr.	FR	4422	227 Owen	Te-2-9410	313 Golf Rd., Plymouth, NC
Cox, Charles O.	SO	4248	220 Turlington	Te-2-9297	1301 Ragsdale Rd., Greenville, NC
Cox, Donald E.	FR	4440	149 Owen	Te-2-9473	830 Rutter Ave., Lancaster, Ohio
Cox, Edwin G.	FR	4335	2 Berry	Te-2-9350	Rt. 5, Box 374, Asheboro, NC
Cox, Frederick R.	GR		1014 Nichols Dr.		Rt. 1, Box 110, Sutherland, Nebkr.
Cox, James P.	SR	15118	309-C Bragaw	Te-4-9179	Rt., Box 20, Goldsboro, NC
Cox, James L., Jr.	So	5566		Te-4-8227	Rt. 1, Reidsville, NC
Cox, Joseph C.	FR		115 Hawthorne Rd.		Rt. 1, Walstanburg, NC
Cox, Jerry D., Jr.	FR	4423	128 Owen	Te-2-9437	Beech Ridge Rd., Belhaven, NC
Cox, Robert E.	SO	15368	404-B Bragaw	Te-4-9754	757 Stratford Rd., Winston-Salem, NC
Cox, Walter T., Jr.	FR	4257	229 Turlington	Te-2-9297	1005 Tanglewood Rd., Gastonia, NC
Cox, Wayne M.			2304 Hillsboro		Rt. 3, Box 38, Tabor City, NC
Cox, William F.	SO		Q-124, Married Stu. Housing		Box 338, Grifton, NC
Cozort, Bennie E.	SO		3413 1/2 Hillsboro	Te-4-6925	Rt. 3, Box 395, Morganton, NC
Craddock, Charles R., Jr.	FR		304 Conner Dr.	Ho-7-9427	304 Conner Dr., Cary, NC
Craddock, Dabney S.	FR	4585	51 Owen	Te-2-9142	105 Beuersfeld, Hamlet, NC
Craddock, Jesse W.	FR	4808	58 Tucker	Te-2-9186	1215 Land St., Norfolk 2, Va.
Craft, Tommy G.	FR	4746	315 Tucker	Te-2-9323	W. DunnSt., Pinetops, NC
Crater, Glenn D.	FR	4805	55 Tucker	Te-2-9186	Rt. 2, Box 58, Harmony, NC
Craven, Resal A., Jr.	FR	4271	307 Turlington	Te-2-9192	Rt. 1, Seagrove, NC
Craven, Ronnie C.	FR	3348	216 Bagwell	Te-2-9131	Rt. 2, Box 475, Concord, NC
Crawley, Benjamin D.	FR	3001	101 Watauga	Te-2-9447	Rt. 1, Box 352, Morganton, NC
Credle, Oliver P.	SR		905 Peace Ter.		609 E. Main, Washington, NC
Creech, Derward Lee	FR				Station B, Raleigh, NC
Creech, Leonard R., Jr.	FR	4434	140 Owen	Te-2-9473	Wakingsbury, Oxford, NC
Creekmore, James H., Jr.	SR	4315	208 Berry	Te-2-9363	1905 W. Nash St., Wilson, NC
Creel, Remus, Jr.	JR	1508	1508 Frank St.		Rt. 1, Albertain, NC
Crenshaw, Frank O.	FR	4212	115 Turlington	Te-4-9279	3009 Idlewood, Charlotte, NC
Cress, Charles E.	GR		3033 Medlin Dr.	Va-8-6635	Rt. 2, Box 686, Salisbury, NC
Cress, Tracy S.	FR	4643	132 Tucker	Te-2-9367	Rt. 4, Concord, NC
Crew, James C.	SR	3786	138 Becton	Te-2-9372	105 Whitestill St., Morganton, NC
Crews, Julian W.	GR		UK-34, Vetsville	Va-8-2839	2000 Union, Buaswick, Ga.
Cribblin, David E.	SO	5665	2514 Clark	Te-34522	2227 Friendly Rd., Greensboro, NC
Criner, Sherman L.	SR	3328	128 Bagwell	Te-4-9219	2813 Patterson Ave., Winston-Salem, NC
Crisp, James O.	JR			Te-3-8175	2614 Hazelwood Dr., Raleigh, NC
Crockford, William M.	SR		2710 1/2 Everett	Te-4-0137	1301 Aylasford Rd., Charlotte 7, NC
Cron, Frederick H.	FR	4427	132 Owen	Te-2-9437	3624 Connecticut Ave., Washington 8, DC
Cronin, Raymond G.	JR	4120	125 Alexander	Te-2-9257	Rt. 1, Box 388, Charlotte, NC
Crook, John M.	FR		2408 Mayview Rd.	Te-3-2631	Box 263, Enka, NC
Croom, Charles E., Jr.	FR	3738	204 Becton	Te-2-9334	2101 E. Mulberry, Goldsboro, NC
Croom, John Thomas	GR			Te-3-5133	1321 Brooks Ave., Raleigh, NC
Croom, Marion R.	JR			Te-2-7051	702 Dixie Tr., Raleigh, NC
Croom, Richard D.	SR			Te-3-5133	1321 Brooks Ave., Raleigh, NC
Croom, Thomas H.	JR	4496	243 Owen	Te-2-9252	220 Woodcrest, Fayetteville, NC
Crosby, Roddie Lee	SR		2612 Clark	Te-2-9484	2270 Circle, Raleigh, NC
Crosland, James W.	FR	4687	210 Tucker	Te-2-9387	201 Tea Farm Rd., Summerville, SC
Cross, Blanche L.	SR		1315 Beaver Dam Rd.	Te-3-0515	513 Mayflower Apts., Virginia Beach, Va.
Cross, Dann S.	SR	3004	104 Watauga	Te-2-9447	209 Pigeon St., Waynesville, NC
Cross, Frank T.	JR		1508 Hillsboro	Te-2-6153	Sunbury, NC
Cross, James M.	SO	15345	318-C Bragaw	Te-4-9253	810 Lewis St., Asheboro, NC
Cross, John M.	SO		1053 Nichols Dr.	Te-3-9656	Marson, NC
Cross, Kenneth E.	FR	4178	315 Alexander	Te-2-9349	Rt. 2, Ruffin, NC
Cross, Lawrence C.	SR				Rt. 11, Moncure, NC
Cross, Thomas E.	FR	4166	240 Alexander	Te-4-9746	26 Cross Rd., Bas King Ridge, NJ
Crotte, Carl B.	SR	15164	405-D Bragaw	Va-8-6547	Rt. 2, Trinity, NC
Crow, Frank H., Jr.	SO	3311	111 Bagwell	Te-4-9219	Box 431, N. Wilkesboro, NC
Crow, Johnny Lee	SR		1001 Brooks Ave.		Box 545, Lincolnton, NC
Crow, William R., III	FR	4199	340 Alexander	Te-2-9349	605 E. Ash St., Goldsboro, NC
Crouder, James U.	GR	15157	403-A Bragaw	Te-4-9757	34 Highland St., Asheville, NC
Crove, Needham C., Jr.	JR				312 Johnson St., New Bern, NC
Crowell, Joseph S.	SR		2626 Kilgore Ave.	Va-8-3510	Box 117, Enka, NC
Crowell, Kenneth B.	SO	4366	21 Stadium		P.O. Box 222, Oakboro, NC
Crowell, Reggie A.	JR	4203	104 Turlington	Te-4-9279	1106 Fee Dee Ave., Albemarle, NC
Crowell, Thomas E.	JR		1008 Norris St.	Te-3-7725	1008 Norris St., Raleigh, NC
Crowley, Arthur J.	GR		3401 Apache Dr.	Te-3-7783	1209 W. Em, Bloomington, Ill.
Cruikshank, James P.	SO		2735 Rosedale Ave.	Te-3-8283	40 Midland Dr., Asheville, NC
Crum, Charles W.	GR		2510 Vanderbilt	Te-2-1606	Rupert, W. Virginia
Crump, Kelly R.	GR			Te-3-7680	Rt. 4, Raleigh, NC
Cruzfield, John S.	SO	5566		Te-4-8228	552 Maple Ave., Reidsville, NC
Crut, Josefino E.	FR	4806	56 Tucker	Te-2-9186	39 D Rhine, Ft. Bragg, NC
Culbreth, Thomas E.	FR	4332	312 Berry	Te-2-9363	610 S. Ridge St., Southern Pines, NC
Culler, Richard B.	SR	15138	319-B Bragaw	Te-4-9179	416 Hillcrest, High Point, NC
Cullipher, James M.	SO	15227	110-A Bragaw	Te-2-9180	Merry Hill, NC
Cullom, Finn B.	SR			Te-3-6443	835 Lake Boone Tr., Raleigh, NC
Culp, Glenn D.	JR	4488	233 Owen	Te-2-9252	Rt. 2, Gold Hill, NC
Culp, Richard L.	SO	5665	2519 Clark	Te-3-4522	12 Chatham Rd., Asheville, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Cummings, Walter B.	JR			Te-4-2554	812½ Rosemont Ave., Raleigh, NC
Cundiff, Dallas E.	PROF			Te-2-5301	706 Harris St., Raleigh, NC
Cunningham, Henry C., Jr.	SR	4563	352 Owen	Te-4-9836	1067 Miller St., Winston-Salem, NC
Cunningham, John T., III					317 Ortelle Rd., Raleigh, NC
Cunningham, Joseph W.	GR		811-B Daniels	Te-2-4563	920 Braddock St., Tampa, Fla.
Cunningham, William P.	GR		Chem. Eng. Dept.		Booneville, Miss.
Curlee, James F.	SO	4626	115 Tucker	Te-2-9367	503 Oakview Rd., High Point, NC
Curlee, John T.	JR	5665	2514 Clark	Te-3-4522	121 Penn. Ave., Winston-Salem, NC
Curlee, Ronald K.	JR		125 Hawthorne Rd.,	Te-2-1183	503 Concord Rd., Albemarle, NC
Cusworth, John Wallace	SO	15361	326-C Bragaw	Te-4-9253	226 Marsh Rd., Charlotte 9, NC
Currie, James R.	SR	15073	213-A Bragaw	Te-2-9185	Rt. 1, 30th Ave., N.E., Hickory, NC
Currin, David D.	JR		7 Enterprise St.	Te-4-0435	Rt. 1, Oxford, NC
Currin, Shirley Thomas	SO	15346	318-D Bragaw	Te-4-9253	Rt. 1, Oxford, NC
Curtis, Burnett P.	SO	15333	312-D Bragaw	Te-4-9253	4013 Cherry Ave., Wilmington, NC
Curtis, Cecil L.	SO		1023 W. South St.	Te-2-4584	1601 Burton, Rocky Mount, NC
Curtis, Roy David	SR			Te-3-0087	216 E. Jones St., Apt. 105, Raleigh, NC
Cusworth, Maynard Clarence			595 AFROTC Det.		1308 Ash Burton Rd., Raleigh, NC
Cutchin, James M.	GR		3205 Ashburton Rd.	Te-3-5775	Whitaker, NC
Cutler, Ernest H.	SR	1053	317 Watauga	Te-2-9488	Rt. 2, Blounts Creek, NC
Cutler, Guy A.	SO	15061	207-A Bragaw	Te-2-9185	Rt. 2, Box 363, Washington, NC
Cutter, James D.	JR	15084	219-A Bragaw	VA8-5005	Athletic Dept., Swim Team, State Col. Sta.
Dabbs, Ronald Lee	FR	4522	305 Owen	Te-4-9836	Rt. 3, Wadesboro, NC
Dabney, William R.	SR	4569	358 Owen	Te-4-9836	236 Henry, South Amboy, NJ
Dagenhart, Allen V.	FR	4656	149 Tucker	Te-2-9388	Rt. 1, Stony Point, NC
Dagenhart, Garland M.	FR	3318	118 Bagwell	Te-4-9219	Rt. 2, Box 5, Taylorsville, NC
Dagerhart, James A., Jr.	FR	3387	321 Bagwell	Te-4-9151	815 Kings Rd., Shelby, NC
Dahiya, Raghunath S.	GR		2 Logan Ct.	Te-2-3544	V&PO Halalpur, Dist. Rohtak, Punjab, India
Dahlen, Philip B.	JR	4234	203 Turlington	Te-2-9297	50 W. Oakland Ave., Oakland, NJ
Dail, James C., III	JR	15351	213-A Bragaw	Te-4-9253	Queen St., Kinston, NC
Dailley, James E.	FR		906 Dogwood Lane	Te-2-4519	906 Dogwood Lane, Raleigh, NC
Dalby, James F.	GR		2613 Broadwell Dr.	Te-3-6924	Rt. 2, Yorktown, Va.
Dale, Jim E.	GR		E-14 Vetville		P.O. Box 81, Wanouish, Pa.
D'Aleco Leo James	JR	3203	103 Gold	Te-2-9263	P.O. Box 283, Jamison, Pa.
Dalrymple, James R., III	FR	4492	238 Owen	Te-2-9252	Yadkin Ave., Laurinburg, NC
Dalton, James E., Jr.	SO	3822	21 Becton	Te-2-9261	Rt. 1, Fine Hall, NC
Dalton, John C.	SR		20 Mayo St.		402 Kivett, Asheboro, NC
Dalton, Robert E.	GR	3226	302 Gold	Te-2-9263	1119 John Marshall Dr., Falls Church, Va.
Dana, Gary L.	JR	15259	202-A Bragaw	Te-4-9123	Rt. 5, Box 644-D, Hickory, NC
Dancy, William P., Jr.	FR	4658	151 Tucker	Te-2-9367	710 Scott St., High Point, NC
Dandliker, Donald M.	FR	4278	316 Turlington	Te-2-9192	2006 Wright Ave., Greensboro, NC
Daniel, Joe F., Jr.	SO	3561	229 Syme	Te-2-9150	307 W. Gold St., Wilson, NC
Daniel, Ralph W.	JR	15239	118-A Bragaw	Te-2-9180	1325 Madison Ave., Greensboro, NC
Daniels, Dennis A.	SO	15296	200-C Bragaw	Te-4-9123	4133 Halifax Rd., Wilmington, NC
Daniels, Harold W.	FR	4408	112 Owen	Te-2-9437	Rt. 1, Box 741, Salisbury, NC
Daniels, Lester J.	FR	4652	143 Tucker	Te-2-9388	350½ E. Sprague St., Winston-Salem, NC
Daniels, Lovry A., Jr.	SR		3414 Hillsboro	Te-3-4808	Driver, Va.
Daniels, Paul H.					610 Broad St., New Bern, NC
Daniels, William H.	SR	15010	105-B Bragaw	Te-2-9129	P.O. Box 827, Ft. Bragg, NC
D'Anna, James A.	JR	15107	303-D Bragaw	Te-4-9179	1523 Grove St., Clearwater, Fla.
Danner, Dennis M.	FR	3541	209 Syme	Te-2-9150	342-19 Ave. N.E., Hickory, NC
D'Antonia, James R.	SO		I-15, Married Stu. Housing		I-15, Married Stu. Housing, State Col. Station
Darden, Charles W.	FR			Te-4-3300	3813 Memory Lane, Raleigh, NC
Darnell, James E.		15068	209-D Bragaw	Te-2-9185	2715 Glenn Ave., Winston-Salem, NC
Darr, Henry H.	JR	4580	45 Owen	Te-2-9142	Rt. 2, Trinity, NC
Darrup, James F.	SO	15197	421-D Bragaw	Te-4-9757	305 N. Maple St., Mt. Carmel, Pa.
Das, Biman	GR		2410 Averett Ave.	Te-2-5607	29/1B, Ballygunge Pl., Calcutta 19, India
Daugherty, David M.	GR		801 Chamberlain	VA8-4539	969 Stonewall Rd., Lexington, Ky.
Daugherty, William F.	SR		3414 Hillsboro	Te-3-4808	524 Weaver Dr., Lexington, NC
Daughtridge, Ben E.	FR	3522	122 Syme	Te-2-9288	N. Church St., Scotland Neck, NC
Daughtridge, William F.	FR	4546	331 Owen	Te-4-9300	Rt. 2, Box 446, Rocky Mount, NC
Daughtry, John M., Jr.	FR	4777	350 Tucker	Te-4-9828	331 Jefferson St., Roanoke Rapids, NC
Davenport, Kenneth G.	JR	15006	103-B Bragaw	Te-2-9129	Box 139 A, Rt. 3, Newland, NC
Davenport, Reynold S., Jr.	SO	3818	16 Becton	Te-2-9261	415 Brentwood, Jacksonville, NC
Davenport, Sidney L.	FR	3551	219 Syme	Te-2-9150	Factoles, NC
David, Abraham S.	GR		A-16 Married Stu. H.	Te-4-5211	Gbeil St., Beirut, Lebanon
David, Joseph P., Jr.	JR	4503	252 Owen	Te-2-9410	Box 56, Middlesex, NC
Davidson, William S.	JR	15326	310-A Bragaw	Te-4-9253	Dillwyn, Va.
Davis, Adam C.	GR			Te-2-0986	116 Forest Rd., Raleigh, NC
Davis, Bobby Gene	FR	3512	112 Syme	Te-2-9288	246 N. 26 St., Wilmington, NC
Davis, Bobby Joe	SR		125½ Woodburn Rd.	Te-2-1662	Rt. 1, State Rd., NC
Davis, Charles A., Jr.	SO	15156	401-D Bragaw	Te-4-9757	201 Carolina, Draper, NC
Davis, Charles Alfred	SR		2002 Tryon Rd.	Te-4-8987	Rt. 1, Box 39, Brevard, NC
Davis, Charles I.	FR	3807	5 Becton	Te-2-9621	Rt. 1, Four Oaks, NC
Davis, Clarence B.	GR	15239	118-A Bragaw	Te-2-9129	1812 Perry Ave., Wilmington, NC
Davis, Daniel S., Jr.	FR	5667	State Coll. Stat.	Te-2-9531	308 S. Thompson St., Monroe, NC
Davis, Ellis H.	FR	3303	103 Bagwell	Te-4-9219	311 Spring St., Thomasville, NC
Davis, Emmett J., Jr.	FR	3748	214 Becton	Te-2-9334	Rt. 4, Box 125, Rutherfordton, NC
Davis, George Earl	JR		719 Chamberlain St.	VA8-8693	1410-6th St. N.W., Hickory, NC
Davis, George K.	SR		2707½ Vanderbilt Ave.	Te-3-6564	Rt. 1, Bessemer City, NC
Davis, Harry G.	FR	3776	308 Becton	Te-2-9372	1413 Ash St., Goldsboro, NC
Davis, Henry M.	GR		1217 Poplar Ave., Garner	Em-2-9091	Box 78, Rt. 1, Flat Rock, NC
Davis, Hobart George	FR	4209	112 Turlington	Te-4-9297	West Jefferson, NC
Daniel, Edward C.	FR	4269	304 Turlington	Te-2-9192	Spring Hope, NC
Davis, Hubert H., Jr.	FR	3525	125 Syme	Te-2-9288	201 Knollwood Dr., Jamestown, NC
Davis, Hugh S.	JR	4590	56 Syme	Te-2-9142	Rt. 2, Box 419, Statesville, NC
Davis, Jack Winslow	SO	15058	205-B Bragaw	Te-2-9185	919 Magnolia St., Winston-Salem, NC
Davis, James L'Roy	SR			Te-2-2805	3327 Coleridge Dr., Raleigh, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Davis James Wall	FR	4205	107 Turlington	Te-4-9279	Rt. 9, Winston-Salem, NC
Davis, Jerry M.	SO	3002	102 Watauga	Te-2-9447	6122 Kingsford, Cincinnati, Ohio
Davis, Joe Eric	SR	4617	101 Tucker	Te-4-3488	Rt. 7, Box 638, Charlotte, NC
Davis, John Charles	SR	4131	139 Alexander	Te-2-9257	2200 Pinecroft Rd., Greensboro, NC
Davis, John Grady, Jr.	SR				16 Horne St., Raleigh, NC
Davis, John Ray	SR	3041	305 Watauga	Te-2-9488	Rt. 2, Vass, NC
Davis, John Wesley, III	JR	3724	124 Becton	Te-2-9256	1821 Gillespie St., Fayetteville, NC
Davis, Kenneth Larry	JR		2817 Mayview Rd.		1898 Haywood Rd., Asheville, NC
Davis, Kenneth W.					Rt. 3, Kernersville, NC
Davis, Larry L.	FR	4719	252 Tucker	Te-2-9387	Box 316, West Jefferson, NC
Davis, Melbourne G.				Te-4-0061	2909 Glasgow St., Raleigh, NC
Davis, Merry Lane	JR		8 Maiden Lane	Te-4-5089	Rt. 1, Mt. Ulla, NC
Davis, Paul L.	FR	4136	204 Alexander	Te-4-9746	Box 404, Waynesville, NC
Davis, Peter R.	FR	4663	156 Tucker	Te-2-9388	2731 Oleander Dr., Wilmington, NC
Davis, Phillip A.	SR			Te-4-9438	711-D Daniels St., Raleigh, NC
Davis, Richard S.	FR	4670	163 Tucker	Te-2-9388	905 Riversdale, Lumberton, NC
Davis, Robert Alan	SO	3772	304 Becton	Te-2-9372	3101 N. Sheridan, Chicago 14, Ill.
Davis, Robert Baker	SR		208 S. Ashe St.		1144 N. Road St., Elizabeth City, NC
Davis, Robert B.	SO	3373	307 Bagwell	Te-4-9151	2409 Chesterfield, Charlotte, NC
Davis, Robert Dabney	SR	5032	State Col. Stat.	Te-2-8971	419 Carolina Cir., Winston-Salem, NC
			2210 Hope St.		
Davis, Robert F.	FR	3533	201 Syme	Te-2-9150	Box 245, Liberty, NC
Davis, Roy M.	FR	4662	155 Tucker	Te-2-9388	203 Governor's View Rd., Asheville, NC
Davis, Samuel D.	FR	4117	122 Alexander	Te-2-9257	Follocksville, NC
Davis, Thomas Barry	SR	4653	145 Tucker	Te-4-3488	Rt. 7, Box 638, Charlotte, NC
Davis, Thomas L.	JR		7 Enterprise St.	Te-4-0435	1710 E. Beech St., Goldsboro, NC
Davis, Wade V.	JR	4661	154 Tucker	Te-2-9388	Rt. 1, Box 83, Mars Hill, NC
Davis, Walter E.				Te-2-5204	607 Quarry St., Raleigh, NC
Davis, Wayland Thomas	SR	3050	314 Watauga	Te-2-9488	Alburtson, NC
Davis, William A.	SO	15171	409-C Bragaw	Te-4-9757	Rt. 1, Rowland, NC
Davis, William F.	FR	15160	326-B Bragaw	Te-4-9253	Kitty Hawk, NC
Davis, William Mayford	FR	4743	310 Tucker	Te-4-9739	Box 425, Black Mtn., NC
Dawes, William E.	FR		Shocoree Dr., Durham	82039	Rt. 1, Box 411, Rocky Mount, NC
Dawkins, James M.	SR			Te-8-8177	5408½ Hillsboro, Raleigh, NC
Day, John C., Jr.	FR	4514	263 Owen	Te-2-9252	1106 Buchanan Blvd., Durham, NC
Day, Ralph D., Jr.	FR		2515 Clark	Te-2-3906	2881 Jefferson, Wilmington, NC
Deadmon, Charles M.	JR		F-23, Married Stu. Housing		Wilkesboro, Mocksville, NC
Deal, Jimmy Vance	FR	4679	206 Tucker	Te-2-9387	Aurora, NC
Deal, Thomas C.	FR	1568	304 Syme	Te-2-9222	Rt. 1, Box 169, Wilkesboro, NC
Deal, William M.	SO	15043	123-C Bragaw	Te-2-9129	R.F.D. 2, Box 277, Lenoir, NC
Dean, Dennis Roy	FR	4791	364 Tucker	Te-2-9323	Magine Rd., Harrison, NY
Dean, James Robert	SO	3545	213 Syme	Te-2-9170	Rt. 2, Box 400, Greensboro, NC
Dean, Leonard P.	GR	3732	State Col. Stat.	Te-4-7772	Rt. 3, Oxford, NC
Deane, Edward Rex	FR	3045	309 Watauga	Te-2-9488	4416 Mason Ridge Dr., Annandale, Va.
De Angelis, Don A.	SO	5990	56 Owen	Te-2-9142	479 Frant St., Saylesville, RI
De Armon, Benjamin Ted	SR		114 Woodburn Rd.	Te-4-2994	De Armon Dr., Charlotte, NC
Deaton, Bobby B.	SR		1508 Frank St.	Te-3-8619	101 York, Morganton, NC
Decker, David Richard	SR		308 Horne St.	Te-2-7050	2362 Elizabeth Ave., Winston-Salem, NC
Decker, Terry C.	FR	4797	47 Tucker	Te-2-9237	447 Plymouth Ave., Winston-Salem, NC
Dees, Billy E.	JR	3724	124 Becton	Te-2-9256	112 Strade St., Hopewell, NC
Deese, Carl J.	JR	3023	205 Watauga	Te-2-9132	R.F.D. 3, Marshville, NC
Dehart, Dillard L., Jr.	SO	151200	423-C Bragaw	Va-8-2897	69 Forman Ave., Asheville, NC
De Hertogh August A.			2508 Country Club Ct.		5505 Western Blvd., Raleigh, NC
DeKle, Donne Robert	JR	4311	204 Berry	Te-2-9363	Box 84, Matthews, NC
DeLeonback Chris Foy	JR			Va-8-9874	106 Ashe Ave., Apt. 4, Raleigh, NC
DeLinger, Theodore G.	FR	4364	19 Stadium		Rt. 1, Huntersville, NC
DeLinger, Thomas Clay	FR	3731	131 Becton	Te-2-9256	222 Wallcliff Pk., Thomasville, NC
Dellostritto, Joseph M.	FR	4555	341 Owen	Te-4-9300	1527 Mansion Pl., Pittsburgh, Pa.
De Loach, Herman H.	GR				2561 McKinney, Burlington, NC
De Loach, Culver J., Jr.	FR		1508 Gorman St.		Pleasant Garden, NC
De Loach, Joseph B.	FR			Va-8-5212	B-3 Wilmont Apts., Raleigh, NC
De Long, Leslie Eddie	FR	2804	Pine Lake Tr. Pk.	Te-2-3357	Pine Lake Tr. Pk., Raleigh, NC
Denbo, Edward M., Jr.	SO		10 Enterprise St.		504 E. Forest Hills, Durham, NC
Denise, Franklin D.	SO			Te-3-7889	1817 Glenwood Ave., Raleigh, NC
Denison, Edward W.	SR		3316 Briarcliff	Va-8-5083	3315 Briarcliff, Raleigh, NC
Denkins, Frank Earl, Jr.	SU			Te-2-8406	116 Hawthorne Rd., Raleigh, NC
Denmark, Florence V.				Te-2-6765	2210 St. Mary's St., Raleigh, NC
Denmark, Andrew Folk	JR				2210 St. Mary's St., Raleigh, NC
Denning, Alvis Wilson	JR		212 Groveland Ave.		Rt. 3, Mt. Olive, NC
Denning, Bobby Ray	SR		Smithfield	We-4-2962	Rt. 3, Benson, NC
Dennis, Edward S., Jr.	SO	3350	218 Bagwell	Te-2-9131	Rt. 2, Box 300-A, Clarkton, NC
Dennis, Marcus Vaughan	SO			Te-4-0447	1325 Mayfair Rd., Raleigh, NC
Dennis, Paul S., Jr.	JR		274½ Rosedale Ave.		267 Westwood Pl., Asheville, NC
Dennis, William Floyd	FR	3564	232 Syme	Te-2-9150	Rt. 6, Box 305, Durham, NC
Dennis, William L.	SR	4710	240 Tucker	Te-2-9387	207 E. Brown, Randleman, NC
Denny, Phillip D.	SO	3032	214 Watauga	Te-2-9132	Box 234, Pilot Mtn., NC
Denny, Stephen B.	JR	3032	214 Watauga	Te-2-9132	Rt. 4, Box 169-B, Greensboro, NC
Denson, Charles A.	SO	3399	333 Bagwell	Te-2-9151	Box 803, Rutherfordord, NC
De Joe, Charles E.	GR		UK-2 Tutville	Va-8-6797	Southampton, NY
De Priest, William M.	FR	4245	217 Turlington	Te-2-9297	2643 Ellerbe Ave., Winston-Salem, NC
Derby, Dan R.	FR	4302	102 Berry	Te-2-9350	212 W. Avondale, Greensboro, NC
Derbyshire, Stephen W.			124 Ridick		3800 Harris Rd., Raleigh, NC
Deriso, John Christopher	SO	4366	21 Stadium		515 Seminole Tr., Jacksonville, NC
Dermid, Joel Arthur	SO		2232 Hillsboro	Te-3-8716	208 Dermid Ave., Hendersonville, NC
Derr, Edgar J.	FR	4251	223 Turlington	Te-2-9297	106 Bossong Dr., Asheville, NC
Derrick, William Edwin	GR	3033	215 Watauga	Te-2-9132	Rt. 6, Box 614, Charlotte, NC
De Uriarte, Sabin Iandone	SR	3213	201 Gold	Te-2-9263	Colon de Larreategui 41-Bilbao, Spain
Deverell, Fersse Keck, III	FR	3395	329 Bagwell	Te-4-9151	2007 Fon du Lac Rd., Richmond 29, Va.
Devine, Joseph David, Jr.	FR			Va-8-5332	616 Brooks Ave., Raleigh, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Dial, Kenneth G.	JR			Te-2-9833	2831 Western Blvd., Raleigh, NC
Diano, Mildred M.	JR		205 Ashe Ave.	Te-2-2598	de Berry Orone, Tarboro, NC
Dickens, Alvin J.	JR				2744 A Rosedale Ave., Raleigh, NC
Dickens, William F.	FR	4112	115 Alexander	Te-2-9752	400 Franklin, Enfield, NC
Dickerson, Ernest R.	FR	4694	223 Tucker	Te-4-9828	203 West Thorndale, Oxford, NC
Dickey, Jerry B.	GR			Te-4-8773	UK-19, Vetrilla, Raleigh, NC
Dickey, Joseph F.	GR		Polk Hall	Ho-7-9667	237 Sorrell St., Cary, NC
Diehl, William David	GR		5234 Vann St.	Te-3-1147	5234 Vann St., Raleigh, NC
Diggs, James Webb, Jr.	SO	3778	310 Becton	Te-2-9372	401 Chanaw Rd., Hamlet, NC
Dilda, Stancil L., Jr.	SO	15214	102-D Bragaw	Te-2-9180	R.F.D. 1, Fountain, NC
Dill, Charles W.	GR		1212 College Pl.	Te-4-7801	Rt. 3, Taylors, SC
Dillard, David G.	FR	1121	203 Fourth	Te-2-9159	Arlica 1052, Lima, Peru
Dillingham, Clarence D.	FR	3344	212 Bagwell	Te-29131	Rt. 2, Dillingham Cir., Asheville, NC
Dillingham, Morris W.	JR		1709 Hillsboro	Te-3-6501	31 Ambler Rd., Asheville, NC
Dills, James Theodore					321 N. Academy, Cary, NC
Di Stefano, Robert V.	JR	15218	104-D Bragaw	Te-2-9180	1215 E. Cheltenham, Philadelphia, Pa.
Dixon, Bryan S.	FR	4240	212 Turlington	Te-2-9297	711 Parker St., Durham, NC
Dixon, James David	JR			Te-2-3604	820 N. Blount St., Raleigh, NC
Dixon, John Daniel	FR		1053 Nichol. Dr.	Te-3-9656	200 Church, Farmville, NC
Dixon, Joseph, III	FR	3766	301 Becton	Te-2-9372	232 Blanca, Tampa, Fla.
Dixon, Michael P.	FR	15102	301-C Bragaw	Te-4-9179	Rt. 2, East Bend, NC
Dixon, Ronald Lynn	SO	4133	201 Alexander	Te-4-9746	Rt. 2, Siler City, NC
Dixon, Simon C.	SO			Te-4-2710	533 Rose Lane, Raleigh, NC
Doby, Neal S.	SO	15088	221-A Bragaw	Va-8-9590	412 Forest, High Point, NC
Doby, William P.	JR		1021 Northview St.	Te-3-3056	111 S. East Ave., Kannapolis, NC
Dodenhoff, Martin H.	SR	566F	1620 Hillsboro	Te-2-9531	15 Sirmine Dr., Greenville, SC
Dodge, Alfred W., Jr.	SR		3536 Apache Dr.	Te-4-1009	3536 Apache Dr., Raleigh, NC
Dodson, Guy M., Jr.	JR			Te-4-6891	3338 Briarcliff Rd., Raleigh, NC
Dodson, Jerry Elmo	JR	3705	103 Becton	Te-2-9256	Georgia Ave., Statesville, NC
Dodson, John Arnold	JR			Va-8-2007	106 Faircloth St., Raleigh, NC
Doggett, Coleman A.	GR	15090	221-C Bragaw	Te-2-9185	Rt. 4, Shelby, NC
Doggett, William Tate	SR	15310	302-A Bragaw	Te-4-9253	413 Country Club Dr., Waynesville, NC
Dolceamore, Anthony R.	FR	4282	320 Turlington	Te-2-9192	3506 Tyson Rd., Newtown Square, Pa.
Donald, Joe K.	FR	4560	349 Owen	Te-4-9836	2 Cedar, Harriman, Tenn.
Donaldson, Joe Kelly	SR	15288	216-C Bragaw	Te-4-9123	Mt. Mouline, NC
Donnelly, Ned P.	SO	4776	349 Tucker	Te-2-9322	326 12th Ave. N.W., Hickory, NC
Donohue, Raymond J.	GR			Te-2-5825	Catholic Orphanage, Raleigh, NC
Donnan, Marvin Kay	SO		1501 Benehan St.	Te-4-0271	3rd St., Pembroke, NC
Doreett, Thomas H.	FR	4457	167 Owen	Te-2-9115	Yadkinville, NC
Doshi, Chandrakant	SR	5806	State Col. Stat.	Te-3-4633	P-33 Mission Rawerth, Calcutta, India
Doshi, Chimanlal H.	UNL	5781	2400 Delta Dr.		Polytechnic Inshtlye, Bhaunagar, India
Dossenbach, Thomas F.	FR		B-23, Married Stu. Housing	Te-4-5010	713 Pitts St., Sanford, NC
Doty, Leete Raymond	SO	15065	209-A Bragaw	Te-2-9185	11 Euclid Ave., Summit, NJ
Dotson, Gerald L.	FR	4350	5 Stadium		412 Crescent Ave., Colonial Hgts., Va.
Dotson, Larry Allen	JR	4620	107 Tucker	Te-2-9367	Box 400 A, Rt. 2, Hendersonville, NC
Doub, Joseph Donald	SR		2208 Hope St.	Te-4-3244	Pfafftown, NC
Dough, Robert Lyle	GR			Te-2-4674	1425 Beaver Dam Dr., Raleigh, NC
Douglas, Jerry M.	GR		2520 Kenmore	Te-2-5862	2520 Kenmore Dr., Raleigh, NC
Douglass, Ross S.	GR		262 Kilgore		P.O. Box 111, Clinton, NC
Dore, Frank B., Jr.	SO			Te-2-9484	2713 Vanderbilt, Raleigh, NC
Doud, William J.	JR	15331	312-B Bragaw	Te-4-9257	Box 207, St. Paul, NC
Dowdle, Joseph C.	GR			Te-4-4566	2609 Vanderbilt Ave., Raleigh, NC
Dowdy, Robert Lee	JR	15335	314-B Bragaw	Va-8-9519	13 East Dr. Francis Pk., Jacksonville, NC
Dowdy, William N.	JR		15 Bagwell Ave.	Te-4-0485	South Mills, NC
Downing, Billy Clark	FR	3017	117 Watauga	Te-2-9447	1428 Pine Valley Loop, Fayetteville, NC
Draffin, Frank D., Jr.	SO	3397	331 Bagwell	Te-4-9151	Harris, Norlina, NC
Draughn, Robert A.	GR		837 Bryan St.	Te-3-1543	911 Park Ave., Wilson, NC
Draughn, Harold M.	SO		130 Cox Ave.		Glory Rd., Zebulon, NC
Dressel, John M.	SO	4422	127 Owen	Te-2-9115	309 Frances St., Durham, NC
Drinkard, Shafter E.	FR			Te-4-4801	2606 1/2 Clark Ave., Raleigh, NC
Drinkard, William F., Jr.	SR	3014	114 Watauga	Te-2-9447	1314 Evidel Ave., Charlotte 3, NC
Driver, William L.	JR			Te-3-2061	401 Chamberlain St., Raleigh, NC
Drossin, Paul Robert	FR	4711	241 Tucker	Te-4-9828	1029 Coddington Pl., Charlotte, NC
Drum, Anthony Lee	FR		1709 Hillsboro	Te-3-6901	4398 Wilkinson Blvd., Charlotte, NC
Drye, Homer Franklin	SR		3805 Greenleaf St.	Te-2-4590	Rt. 7, Salisbury, NC
Drye, Jerry Wendell	SO	4459	202 Owen	Te-2-9410	R.F.D. 2, Box 166, Albemarle, NC
Drye, Robert J., Jr.	SO	15211	102-A Bragaw	Te-2-9180	2400 Kewdrick Dr., Charlotte, NC
Duckworth, Walter D.	GR			Te-3-7302	46 Dixie Dr., Raleigh, NC
Duerk, Stephen B.	FR	4650	140 Tucker	Te-2-9388	688 Lakeside Dr., Baldwin, NC
Duke, Carlton W., Jr.	GR		3100 Hillsboro	Te-4-7588	3100 Hillsboro, B-6 Wilmont Apt., Ral., NC
Duke, Charles L.	JR	5608	2702 Hillsboro	Te-2-1835	Box 872, Canton, NC
Duke, William B.	JR	4479	224 Owen	Te-2-9410	Norlina, NC
Dukes, Philip D.	GR	4405	Owen	Te-4-7807	
Dula, Harry S.	FR	4791	364 Tucker	Te-2-9323	Hillsboro, NC
Dulin, John W.	GR		1501 Benehan St.	Te-4-0271	Box 446, Mt. Pleasant, NC
Dumas, Edward J.	SR		2610 Clark	Te-2-1432	1505 Kings Rd., Shelby, NC
Dunbar, Charles W.	FR	4743	310 Tucker	Te-4-9739	Allendale, SC
Dunbar, Robert Keith	FR		2226 Hillsboro		Scranton, NC
Duncan, Clarence R.	JR	15046	125-B Bragaw	Te-2-9129	210 N. Laurel St., Lincolnton, NC
Duncan, George C., Jr.	FR	4283	321 Turlington	Te-2-9192	607 Sievers, Roxboro, NC
Duncan, Henry Lee	SO		Tucker		118 26th St. S.W., Hickory, NC
Duncan, James D., Jr.	JR			Te-2-0242	106 1/2 E. North St., Raleigh, NC
Duncan, John K.	SR	15328	310-C Bragaw	Te-4-9253	405 Cadillac, Kannapolis, NC
Duncan, Julius A.	FR	4690	219 Tucker	Te-2-9387	2213 Roswell, Charlotte, NC
Duncan, Marshall Y.	SR			Va-2-6490	312 Front St., Clayton, NC
Duncan, Romas H.	JR				1211 Ridge Rd., Raleigh, NC
Dunlop, George H., Jr.	JR			Te-2-2349	605 Lake Boone Tr., Raleigh, NC
Dunlap, Johnny L.			101 1/2 Oberlin		616 Piedmont Way, Burlington, NC
Dunn, Harry P.	SR	15012	105-D Bragaw	Te-2-9129	272 Oakwood Cir., Danville, Va.

NAME	YR	BOI	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Dunn, Ralph A.	FR	4568	357 Owen	Te-4-9836	P.O. Box 1424, Winston-Salem, NC
Dunn, William Phillip	FR	4708	238 Tucker	Te-4-9828	P.O. Box 7424, Winston-Salem, NC
Dunning, Charles E.	SO	15145	323-A Bragaw	Te-4-9179	Rt. 1, Woodland, NC
Dunning, Kenneth Alan	SR	3764	230 Becton	Te-2-9334	2503 Old Snow Hill Rd., Kinston, NC
Dunshoe, Jason H.	SO		Turlington		Panteg, NC
Dunstan, David F.	FR	4325	305 Berry	Te-2-9363	
Duong, Hung Trung	JR		201 Ashe Ave.	Te-4-8066	370 Levan Duyet, Saigon, Vietnam
Duplessis, John J.					3802 Harris Rd., Raleigh, NC
Dupree, James R.	FR			Te-2-2467	703 N. Kimbrough, Raleigh, NC
Durham, Hugh T., Jr.	FR	3541	209 Syme	Te-2-9150	314 Crystal Springs Dr., Hendersonville, NC
Durham, Jerry D.	FR	4744	312 Tucker	Te-2-9323	Box 93, Four Oaks, NC
Duricko, Stephen D.	SC	3330	130 Bagwell	Te-4-9219	1308 Hampton, Scranton, Pa.
Durrett, Van D., Jr.	FR	3769	301 Becton	Te-2-9372	2416 Sunset, Tampa, Fla.
Dutton, Earl L.	FR	3736	202 Becton	Te-2-9334	112 S. Thompson, Whiteville, NC
Dutton, Robert W.	FR	4360	15 Stadium		Taftsville, Vermont
Duval, Andre R.	JR		1254 Woodburn Rd.	Te-2-1462	Box 96, Waxhaw, NC
Dwore, Donald Jay	FR	3788	320 Becton	Te-2-9372	1310 Lexington Ave., Schenectady, NY
Dyer, Don W.	FR	3505	105 Syme	Te-2-9288	507 Woodvale Dr., Greensboro, NC
Dyson, Joan G.				Te-3-4044	Rt. 1, Cary, NC
Dyson, Peter John	GR			Te-3-4044	Rt. 1, Cary, NC
Eagles, Joseph E.	SO		2160 Mayview Rd.	Va-8-2645	Macclesfield, NC
Eakes, James C.	SO	15022	111-B Bragaw	Te-2-9129	Rt. 8, Sanford, NC
Earle, Gordon M.	JR		1720 Hillsboro	Te-4-0451	216 Marsh, Salisbury, NC
Early, John G.	SR			Te-2-8948	200 Grand Ave., Raleigh, NC
Early, Joseph L.	JR		2718 Clark	Te-2-6451	Rt. 1, Oak City, NC
Earnhardt, Charles K.	FR	3572	308 Syme	Te-2-9222	106 Woodrow, Fuquay Springs, NC
Earnhardt, John W., Jr.	SO	4236	201 Turlington	Te-2-9297	Rt. 1, Winston-Salem, NC
Earnhardt, Richard M.	JR	4268	303 Turlington	Te-2-9192	208 Walnut Ave., Charlotte, NC
Earp, David Franklin	FR		4700 Hillsboro	Te-3-0977	R.F.D. 1, Selma, NC
Earp, James W., Jr.	JR		1718 Hillsboro	Va-8-4464	Rt. 1, Selma, NC
Earp, Larry Gordon	FR	15146	323-B Bragaw	Te-4-9179	224 State St., Charlotte, NC
Eason, Theo O'Neal	SR			Va-8-5149	1305 Kent Rd., Raleigh, NC
Eason, Edward F.	SO	15399	418-B Bragaw	Te-4-9754	Rt. 3, Elm City, NC
Eason, George A.	SR		1004 W. Lenoir St.	Te-3-7229	Macclesfield, NC
Eason, Rabbell C.	FR	4365	20 Stadium	Te-2-9339	Whaleyville, Va.
Eason, William U., III	FR	4162	235 Alexander	Te-4-9746	Rt. 2, Smithfield, NC
Easterling, George Dixon	SO	15102	301-C Bragaw	Te-4-9179	701 Hylan Ave., Hamlet, NC
Easterling, William Neal	JR	3019	201 Watauga	Te-2-9132	Rt. 1, Box 266, Wise, Va.
Easton, Charles L.	FR	4745	314 Tucker	Te-4-9739	116 Military St., Oxford, NC
Eastwood, Yorkie Lee					2708 Lake View Dr., Raleigh, NC
Eaton, Frank A., III		4678	205 Tucker	Te-2-9387	3779 Karlin, Norfolk, Va.
Eaton, John E.	SR	5656	2513 Clark	Te-2-0268	660 Lakeshore Dr., Asheville, NC
Eberhart, Steve A.	GR		706 E. Whitaker Mill	Va-8-4540	Bassett, Nebr.
Eberly, Curt W.	FR	15026	115-B Bragaw	Va-8-9733	Rt. 1, Sheridan, Pa.
Ebersole, William C.	SO		300 D Chamberlain	Te-3-9337	4705 Wrightsville Ave., Wilmington, NC
Eck, Thomas H.	SR		1709 Hillsboro	Te-3-6901	Quacco Rd., Savannah, Ga.
Eckard, Allan L.	JR		204 Gold	Te-2-9263	Rt. 2, Box 55, Hickory, NC
Eckstein, Gerald L.	FR	4240	212 Turlington	Te-2-9297	3205 Rogers, Fayetteville, NC
Eckstein, Louis W., Jr.	JR		116 Hawthorn Rd.		Bryson City, NC
Eckstein, William B.	JR		116 Hawthorn Rd.		Box 471, Bryson City, NC
Economou, James P.	JR		19064 Hillsboro	Te-4-6165	1039 Redfern, Dayton 6, Ohio
Eddleman, Bobby Ross	GR		536 N. Blount	Te-2-8476	Box 123, Goodnight, Texas
Edgar, Edward P.	FR	4222	125 Turlington	Te-4-9279	24 W. Prentiss Ave., Greenville, SC
Edgerton, Jerry A.	SO	18152	415-A Bragaw	Te-4-9757	P.O. Box 356, Goldsboro, NC
Edmonds, Lloyd V.	FR		J-12, Married Stu. Housing	Te-3-6770	Rt. 2, Box 498, Roanoke Rapids, NC
Edmonds, Rufus E.	SR		1615 Hillsboro	Va-8-2996	Rt. 1, Elkin, NC
Edmondson, James B.	FR		2215 Bernard Ave.	Te-3-5059	Roanoke Rapids, NC
Edmondson, John A.	SR		1887 Smallwood Dr.	Te-4-2001	156 Forest Ave., Raleigh, NC
Edmondson, James C.				Va-8-5344	2622 Kilgore Ave., Raleigh, NC
Edwards, Arthur Jay	FR	3595	331 Syme	Te-2-9222	Box 175, George, NC
Edwards, Carl E., Jr.	SO			Te-3-1124	1622 Sunrise Ave., Raleigh, NC
Edwards, Charles W.	SR			Te-3-5941	217 Gardner St., Raleigh, NC
Edwards, Ellie C.	FR	4769	339 Tucker	Te-4-9739	Rt. 1, Box 276, Rich Square, NC
Edwards, James H.	FR	15001	101-A Bragaw	Te-2-9129	1901 Rolling Rd., Greensboro, NC
Edwards, Jerry Allen	SR		1204 Groveland Ave.	Te-3-8037	Rt. 3, Mooresville, NC
Edwards, John L., Jr.	SR		Q-206, Married Stu. Housing	Te-4-6592	Rt. 2, Box 241, Clyde, NC
Edwards, John Marshall	FR	4220	123 Turlington	Te-4-9279	1827 Plaza, Charlotte, NC
Edwards, John Thomas, Jr.	SR	4350	5 Stadium		Box 37, Spring Hope, NC
Edwards, Larry Clifton	SR			Va-8-2906	803 Wilmington Terr., Raleigh, NC
Edwards, Lennie M., Jr.	FR	3614	18 Syme	Te-2-9421	Box 114, Spring Hope, NC
Edwards, Lloyd L., Jr.	FR	4785	358 Tucker	Te-2-9323	2352 Penoragon Rd., Kingsport, Tenn.
Edwards, Marion Lee	FR	3512	112 Syme	Te-2-9288	401 Fenwick Dr., Falls Church, Va.
Edwards, Melvin D.	SR			Va-8-4170	516 Mial St., Raleigh, NC
Edwards, Michael R.	JR	4519	302 Owen	Te-4-9836	Rt. 2, Box 15, Thomasville, NC
Edwards, Norman V.	FR	4439	148 Owen	Te-2-9115	433 England Ave., Hampton, Va.
Edwards, Otho E.	JR				Rt. 1, Box 341-A, Cary, NC
Edwards, Ralph Goldeon, Jr.	SR		1720 Hillsboro	Te-4-0451	303 W. Marsh, Salisbury, NC
Edwards, Richard N.	FR				2725 Anderson Dr., Raleigh, NC
Edwards, Thomas H.	JR				19 E. Dixie Dr., Raleigh, NC
Edwards, Tommie Jarryll	FR	4769	339 Tucker	Te-4-9739	Rich Square, NC
Edwards, Walter Allan	FR	1508	1508 Frank St.		"t. 2, Marshville, NC
Edwards, Walton Dale	FR	4572	361 Owen	Te-4-9836	2216 Gibson Ave., Wilmington, NC
Edwards, Wayne W.	JR	4134	202 Alexander	Te-4-9746	Box 732, Red Springs, NC
Edwards, William E.	FR	4675	202 Tucker	Te-4-9828	1551 Old Salisbury, Winston-Salem, NC
Edwards, Virgil James	JR			Te-3-8892	Rt. 5, Raleigh, NC
Edwards, William C.	SR	4766	336 Tucker	Te-2-9323	Rt. 2, Middlesex, NC
Efird, Henry B., Jr.	SO	4595	61 Owen	Te-2-9142	Box 357, Troy, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Efrid, Wilbur M.	SO	3378	312 Bagwell	Te-4-9151	Rt. 2, Norwood, NC
Eisenberg, Robert C.	GR				2337 Grant Ave., Raleigh, NC
Ela, Teresita Sison			15 Maiden Lane	Te-3-0231	431 Falmera, Sampaloc, Manila, P. I.
Elabo, Galal Mohamed					8 Soliman Facha, Cairo
Elam, Edward S.	SR	4307	107 Berry	Te-2-9363	430 Sugaw Creek Rd., W. Charlotte 6, NC
Elam, Johnny B.	FR	527	YMCA		Box 194, Cherryville, NC
Elam, Richard C.	SR	5566		Te-4-8227	1027 11th St. Cir. Dr. N.W., Hickory, NC
El Aref, Magdi Mourad		5702	State Col. Stat.		S. Daize St., Raleigh, NC
Elder, James W.	SO				Rt. 1, Box 341-A, Cary, NC
Elers, Tase L.	GR		N-11 Married Stu. Housing		N-11 Married Stu. Housing, State Col. Station
Elías, Henry F.	JR	3231	307 Gold	Te-2-9263	Sprout Brook Rd., Peckskill, NY
Elkins, Edwin P., Jr.	SR		309 Brooks Ave.	Va-8-5058	Rt. 2, Box 346, Clarkton, NC
Elkins, Roscoe E., Jr.	JR	15017	109-A Bragaw	Te-2-9129	Rt. 2, Clinton, NC
Elks, Dennis Hall	FR	4283	321 Turlington	Te-2-9192	401 Cedar St., Roanoke Rapids, NC
Ellen, Julius Edward	EM		2713 Everette Ave.	Te-4-2721	Rt. 3, Rocky Mount, NC
Eller, Conrad David	SO		1814 Park Dr.	Te-2-3698	RFD, Moravian Falls, NC
Ellington, Rayburn P., III	SO		308 Horne St.	Te-2-7050	2306 Rose Ct., Burlington, NC
Ellinwood, George H.	FR	3505	105 Syme	Te-2-9288	1601 N. College Fk. Dr., Greensboro, NC
Elliot, David B.	SR	5665	2514 Clark	Te-3-4522	524 W. Main St., Forest City, NC
Elliot, Johnny Lee	SR		2713 Everette Ave.	Te-4-2721	Rt. 5, Statesville, NC
Elliot, Lloyd W.	JR	341-A	Rt. 1, Raleigh		Gen. Del., Old Fort, NC
Elliot, Shirley G., Jr.	FR	3703	103 Becton	Te-2-9256	Rt. 2, Box 6, Oxford, NC
Ellis, Blair C.	JR			Te-2-3239	503 Harvey St., Raleigh, NC
Ellis, Francis C.	SO	4412	117 Owen	Te-2-9473	1107 Roosevelt Ave., Zanesville, Ohio
Ellis, George B., Jr.	JR	4503	252 Owen	Te-2-9252	87 Edgewood Cir., Winston-Salem, NC
Ellis, Howard M., Jr.	JR			Te-2-5887	1203 Walnut Tr., Raleigh, NC
Ellis, Ira Joel, Jr.	GR		132 Woodburn Rd.	Va-8-2406	Rt. 1, Stantonsburg, NC
Ellis, John L.	FR	4487	232 Owen	Te-2-9410	2850 Biltmore Ave., Montgomery, Ala.
Ellis, Larry Lee	SR			Te-4-0375	219 Park Ave., Raleigh, NC
Ellis, Larry W.	EM	15415	426-D Bragaw	Te-4-9754	1225 Junction Rd., Durham, NC
Ellis, Philip R.	SR				501 1/2 Frank St., Raleigh, NC
Ellis, Robert C., Jr.	SR		7 Dixie Tr.	Va-8-4341	809 Churchill Dr., Shelby, NC
Ellis, Robert Louis	SR	3585	321 Syme	Te-2-9222	2220 Metts, Wilmington, NC
Ellis, Sharon W.	FR		101 Chamberlain St.		Rt. 2, Advance, NC
Ellisor, Joe Allen	JR	15020	109-D Bragaw	Te-2-9129	1201 Florida St., Greensboro, NC
Elmore, Alfred L.	JR		611 Wills Forest St.	Te-2-6146	Rt. 5, Dunn, NC
Elmore, Eugene L.	FR	3376	310 Bagwell	Te-4-9151	Rt. 1, Dallas, NC
Elmore, George Gary	FR	4146	214 Alexander	Te-4-9746	RFD 1, Troutman, NC
Elrod, Ella Grace			4213 Rowan Dr.	Te-4-6912	1315 Chester Rd., Raleigh, NC
Elrod, Henry James, Jr.	SO	4220	123 Turlington	Te-4-9279	704 4th St., Spencer, NC
Elwan, Ibrahim Ibrahim	FR	5752	State Col. Stat.		El Gomhauria St., Port-Said, Egypt U.A.R.
Emerson, Thomas J.	SR		Rt. 2, Siler City, NC	712-4474	
Emmons, James T.	FR			Te-4-4078	3117 Leonard St., Raleigh, NC
Emmich, Ralph W.	JR		2226 Hillsboro	Va-8-2916	Panorama Ct., Franklin, NC
Engart, Robert Th., III	FR	4500	249 Owen	Te-2-9252	Box 2451, Hickory, NC
English, Charles W.	JR				520 Highland Ave., Raleigh, NC
English, Lyndall G.	FR	4748	317 Tucker	Te-4-9738	Rt. 3, Mars Hill, NC
English, Ronald H.	SR	3038	302 Watuga	Te-2-9488	Willard, NC
English, William O.	SR			Te-4-0296	2206 1/2 B Fairview Rd., Raleigh, NC
Enloe, Harold C.	SO		3414 Hillsboro	Te-3-4808	40 Westover Dr., Asheville, NC
Entreklin, James H.	JR	5656	2513 Clark	Te-2-0268	1239 Pinecrest, Charlotte, NC
Entwistle, Mary E.	FR		36 W. Dixie Dr.		223 French's Ave., Moorestown, NJ
Ensor, Crawford M., Jr.	SO	15215	104-A Bragaw	Te-2-9180	Rt. 1, Fair Bluff, NC
Epp, Frederick C.	FR	4631	120 Tucker	Te-2-9367	417 Briarwood Rd., Wallingford, Pa.
Epting, Bryson E.					228 Highland Ave., Burlington, NC
Eraslan, Arsev Husnu	GR		Broughton Hall		Misantas Ihlamur Yolcad 10/2, Istanbul, Turkey
Erb, Samuel R.	FR	4780	353 Tucker,	Te-2-9323	31 East 2nd St., Lansdale, Pa.
Ercesall					
Erikson, Thomas F.	FR	4230	135 Turlington	Te-4-9279	Rt. 5, Box 653, Hickory, NC
Eskridge, Harold E.	SR			Va-8-4940	405 Gardner St., Raleigh, NC
Estridge, Smmy E., Jr.	FR	4460	203 Owen	Te-2-9410	Box 365, Badin, NC
Etchells, James L.	FR				122 Faircloth St., Raleigh, NC
Eudy, Larry D.	SR		800 Wilm. Terr.		5935 Wilora Rd., Charlotte, NC
Evans, Hugh K.	FR	4111	114 Alexander	Te-2-9257	RFD 3, Selma, NC
Evans, Ilona Marianne					1618 Hillsboro St., Raleigh, NC
Evans, Robert C., Jr.	FR	4136	204 Alexander	Te-4-9746	409 Carolina Ave., Hazelwood, NC
Evans, Roger B.	FR	3728	26 Becton	Te-2-9261	Mayflower Dr., Greensboro, NC
Evans, Thomas W.			Rt. 1, Cary, NC		7617 Castleton Pl., Cincinnati, Ohio
Evans, William E.	EM		2612 Clark	Te-2-9484	1801 Carey Rd., Kinston, NC
Everett, Marvin M.	SR	3301	101 Bagwell	Te-4-9219	Robersonville, NC
Everette, John D.	SR		1341 Chester Rd.	Te-3-0470	823 Falls Rd., Rocky Mount, NC
Everette, Robert B.	JR		8 Ferndell Lane	Te-2-1755	Acme, NC
Fadel, Salem Kelly	SO	3272	312 Welch	Te-2-9119	512 Huske, Fayetteville, NC
Faelten, Eion M.	SR		2512 Clark	Te-2-4843	401 Cox Ave., Kinston, NC
Faggart, Michael W.	SO	15398	418-C Bragaw	Te-4-9754	690 Wilmar Dr., Concord, NC
Fairbanks, David I.	GR		809 Edmunds St.	Va-8-3186	415 S. Main, Geneva, NY
Faircloth, Bobby E.	So	4593	59 Owen	Te-2-9142	213 S. Racepath St., Fayetteville, NC
Faircloth, Oscar Lee	FR	4775	348 Tucker	Te-2-9323	Rt. 1, Roseboro, NC
Fairfax, Hiawatha A., Jr.	JR		M-6 Country Club Hms.	Te-3-9941	M-6 Country Club Hms., Raleigh, NC
Fairfax, Jesse A., Jr.	JR	15204	425-C Bragaw	Te-4-9757	Point Harbor, NO
Fakler, Anne Louise	FR			Va-8-3765	810 Glenwood Ave., Raleigh, NC
Fales, Carl L.	SR		2220 1/2 Hillsboro		1721 Orange St., Wilmington, NC
Falkner, John M.	SR			Va-8-2376	4202 Reavis Rd., Raleigh, NC
Falsarano, Peter A.	FR	4481	226 Owen	Te-2-9252	311 Railroad Ave., Stirling, NJ
Falls, Richard Dan	SR	3812	10 Becton	Te-2-9261	Box 80, Rt. 2, Bessemer City, NC
Fanny, Josef P.	SO	15407	422-D Bragaw	Te-4-9754	Scotland Neck, NC

NAME	IR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Pansler, David W.	SR	15064	207-D Bragaw	Te-2-9185	213 Gloria Ave., Winston-Salem, NC
Paris, Gale L.	FR	3545	213 Syme	Te-2-9150	Glade Spring, Va.
Parmer, Berkwood M.	GR	71	Rt. 1, Cary, NC	Te-4-7286	Ringold, Va.
Parmer, Bernice Ray	JR			Va-8-5353	2317 Yancey St., Raleigh, NC
Parmer, Fred S.	FR	3783	315 Becton	Te-2-9372	Rt. 1, Newland, NC
Parmer, George Leonidas	SO		508 West Garner Lp. Rd.	Te-2-4058	508 W. Garner Lp. Rd., Raleigh, NC
Parmer, John B., Jr.	SO	3129	303 Fourth	Te-2-9159	P.O. Box 3, Elm City, NC
Parmer, John Gavin	FR			Te-2-4058	508 W. Garner Lp. Rd., Raleigh, NC
Parmer, Lee B.	FR	4117	122 Alexander	Te-2-9257	Lilly, Norwood, NC
Parmer, Michael P.	SO	4712	243 Tucker	Te-2-9387	713 Rudolph St., Goldsboro, NC
Parn, Charles Lub-Sun	GR		2402 Hillsboro	Te-3-9108	84, Lane 83, 1st Sec., N. Chungshan Rd. Taipei, Taiwan, China
Farr, Edward C.	SR		2204 Garden Fl.	Va-8-6552	1211 E. Worthington, Charlotte, NC
Farrell, Claude H.	SR			Te-4-7582	201 Dixie Tr., Raleigh, NC
Farris, Arthur C.	SR		210 Cox Ave.	Va-8-3996	1619 Scott Ave., Charlotte, NC
Fatkin, Thomas G.	SO	15173	411-A Bragaw	Va-8-6753	Rt. 2, Albemarle, NC
Faulde, Rodney D.	PROF			Te-4-3517	113 Lake Boone Tr., Raleigh, NC
Faulk, Richard H.	FR	4420	125 Owen	Te-2-9115	Rt. 6, Sanford, NC
Faulkner, Fred E.	GR		Mendenhall's Mobile Home Ct., Cary	Te-4-0066	55 Haw Creek Rd., Asheville, NC
Faust, Charles R.	JR	2833	5 Dixie Tr.		105 N. Slocumb St., Goldsboro, NC
Faust, Eric M.	SO		7 Enterprise	Te-4-0435	801 Maple Ave., Salisbury, NC
Faust, Larry M.	SR		2512 Clark	Te-2-4843	905 Watson Ave., Winston-Salem, NC
Fawcett, Jeffrey C.	FR	4466	209 Owen	Te-2-9252	397 Mashielane, Orlando, Fla.
Fearrington, George W.	FR	4701	230 Tucker	Te-4-9828	Rt. 1, Box 4-38, Pfafftown, NC
Feather, Clifford H.	JR		217 Hawthorne		915 Colonial Ave., Aberdeen, NC
Featherstone, Ernest H.	JR		Wicker Tr. Pk.		1300 Hickory Grove Rd., Mt. Holly, NC
Feinster, Allen G.	SR	15137	319-A Bragaw	Te-4-9179	Rt. 3, Taylorsville, NC
Feiner, Leonard C.	FR	4599	65 Owen	Te-2-9142	2414 Fry St., Greensboro, NC
Feistmann, Peter H.	FR	4662	155 Tucker	Te-2-9388	238 Midland Dr., Asheville, NC
Felnet, Jack W.	JR	4515	264 Owen	Te-2-9252	Rt. 3, Waynesville, NC
Felton, Henry N.	FR	4686	215 Tucker	Te-2-9387	1506 Dickinson Ave., Greenville, NC
Felton, Ronald B.	SR			Te-4-3301	813-A Daniels St., Raleigh, NC
Felte, Louis D.	GR				121 S. Boylan Ave., Raleigh, NC
Feng, Robert Jan-Chiu	GR				2726 Clark Ave., Raleigh, NC
Fenton, John F.	SO	3352	220 Bagwell	Te-2-9131	170 Highland Ave., Montclair, NJ
Ferguson, James M., Jr.	SO			Te-3-1540	1817 Wilshire Ave., Raleigh, NC
Ferguson, James S.	FR	4723	256 Tucker	Te-2-9387	Rt. 8, Sanford, NC
Ferguson, Leland G.	FR	3826	25 Becton	Te-2-9261	Rt. 3, Winston-Salem, NC
Ferrell, Grady T.	JR			Te-2-9501	1505 Chester Rd., Raleigh, NC
Fetherton, David E.	JR			Te-2-6280	1629 Glenwood Ave., Raleigh, NC
Picquett, Frederick A., Jr.	JR		1220 Filmore St.	Te-4-8055	Rt. 1, Harrells, NC
Pie, Evan H.	FR	4361	16 Stadium		3150 Harlem, Riverside, Ill.
Pielde, Bobby H.	FR	4692	221 Tucker	Te-4-9829	Rt. 5, Goldsboro, NC
Pielde, Edgar M., Jr.	SR	3570	306 Syme	Te-2-9222	320 Grubb St., Hertford, NC
Pielde, Parks C.	SR	3051	315 Watauga	Te-2-9488	Rt. 1, Pleasant Garden, NC
Piles, Douglas W.	SR			Te-3-3272	7½ Rosemary St., Raleigh, NC
Pilecoff, Poed Fred	SR	15235	116-A Bragaw	Te-2-9180	Lalezar Ave., Tehran, Iran
Finch, James W., Jr.	FR	4359	14 Stadium		Box 142, Bailey, NC
Finch, Jeffrey H.	SO				1502 Oakdale, Henderson, NC
Fincher, Edward G.	JR	3211	311 Welsh	Te-2-9119	Rt. 2, Box 835 F, Charlotte, NC
Fine, David Lee	SO	3009	109 Watauga	Te-2-9447	Rt. 2, Box 370, New London, NC
Fine, Lovell V.	FR	4515	264 Owen	Te-2-9252	Rt. 1, Box 226, Denton, NC
Finger, Donald E.	FR		H-26 Married Stu. H.	Va-8-4073	1054 16th Ave., N.W., Hickory, NC
Pink, Coy D.	FR	4237	207 Turlington	Te-2-9297	Box 93, Faith, NC
Pinley, James N.	FR	3356	224 Bagwell	Te-2-9131	306 10th Ave. Dr. N.E., Hickory, NC
Pinnegan, George W., Jr.	JR	4657	150 Tucker	Te-2-9388	478 Grace Church St., Rye, NY
Pish, Dorey H.	FR	4586	52 Owen	Te-2-9142	Rt. 1, Willow Springs, NC
Pish, George W.	JR		115 W. Park St.	Te-4-7635	834 Roanoke Ave., Roanoke Rapids, NC
Pish, Joseph R.	JR	15072	211-D Bragaw	Te-2-9185	Charlotte, NC
Pish, Raleigh Joe	FR	4739	306 Tucker	Te-4-9739	Rt. 2, Candler, NC
Pish, Rufus T.	SR		1710 Hillsboro	Te-4-2001	1112 Watson Dr., Wilson, NC
Pishel, Herbert A.	SO	4517	267 Owen	Te-2-9252	3703 Konnoak Dr., Winston-Salem, NC
Pishburne, Willard B.	FR	4270	305 Turlington	Te-2-9192	83 Tacoma Cir., Asheville, NC
Pishel, Philip C., Jr.	FR	4205	107 Turlington	Te-4-9279	Rt. 9, Sides Rd., Winston-Salem, NC
Pishel, Walter Lee	GR		303 Dixie Tr.	Te-4-0838	303 Dixie Tr., Raleigh, NC
Pisher, Charles G.	FR	3782	314 Becton	Te-2-9372	Rt. 2, Box 470, Kings Mtn., NC
Pisher, Charles H.	SR		O-22 Married Stu. Housing		Box 334, Marshall, NC
Fisher, Gary H.	FR	4244	216 Turlington	Te-2-9297	Beatty Ford Rd., Charlotte, NC
Fisher, George W.	JR	15021	111-A Bragaw	Te-2-9129	Mt. Pleasant, NC
Fisher, Henry Lee, Jr.	GR	15023	111-C Bragaw	Te-2-9129	Box 36, Mt. Pleasant, NC
Fisher, James C., Jr.	SR		B-16 Married Stu. Housing		Rt. 1, Mt. Pleasant, NC
Fisher, James Ernest	SO	15201	423-D Bagwell	Va-8-2897	43 Burnsville Hill Rd., Asheville, NC
Fisher, James H.	FR	4121	126 Alexander	Te-2-9257	2600 Bay St., Charlotte 5, NC
Fisher, John L., Jr.	SO	4799	49 Tucker	Te-2-9186	533 W. Harvie, Gastonia, NC
Fisher, John Reed	JR	15054	202-B Bragaw	Te-2-9185	231 Edgedale Dr., High Point, NC
Fisher, Norman Ray	SR		I-14 Married Stu. Housing		Box 77, Conover, NC
Fisher, Ray R., II	FR			Va-8-9578	3039 Parrior Rd., Raleigh, NC
Fisher, Thomas R.	SO		10 Enterprise		2128 Lagurce, Charlotte, NC
Fisher, William Arnold	SR				2947 Winchester Ct., Raleigh, NC
Fitts, Edward F.	SR		O-21 Married Stu. Housing		109 College, Littleton, NC
Fitts, Jerry B.	SR		1501 Beneshan St.	Te-4-0271	1021 Gardner St., Raleigh, NC
Fitts, Robert B.	GR		B-13 Married Stu. Housing	Va-8-9556	22 White Pine Dr., Asheville, NC
Fitzula, Ronald A.	FR	3790	322 Becton	Te-2-9372	2207 S. Ashe, Greensboro, NC
Fitzgerald, James J.	SR	15078	215-C Bragaw	Te-2-9185	1301 Fremont St., McKeensport, Pa.
Fjeld, John M., Jr.			5½ Dixie Tr.		3602 Dogwood Dr., Greensboro, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Flake, Wildon C.	JR		2804 Hillsboro		Rt. 1, New London, NC
Flanagan, David L.	GR		UK-32 Vetville	Te-3-3402	UK-32 Vetville, Raleigh, NC
Fleetwood, Arthur R.	JR			Hu-4-4928	1813 Finegan St., Fayetteville, NC
Fleming, Gary G.	SO		2314 Hillsboro	Va-8-9508	P.O. Box 469 Henderson, NC
Fleming, Ralph G.	JR	15052	201-D Bragaw	Te-2-9185	615 S. Church St., Salisbury, NC
Fleming, Robert James, Jr.	SO	3016	116 Watauga	Te-2-9447	612 East Academy, Fuquay Springs, NC
Fleming, Wilton Lee					
Fletcher, John E.	GR		202 Ashe Ave.	Va-8-9534	Zionville, NC
Fletcher, Ronald G.	OW				3035 Medlin Dr., Raleigh, NC
Floresman, Joseph	SR	4772	343 Tucker	Te-2-9323	Rt. 2, Hamilton, Ontario, Canada
Flowers, Arthur D.	JR		2612 Halewood Dr.	Te-3-8175	502 Jefferson Ave., New Bern, NC
Floyd, Benjamin M.	SO		2926 Avents Ferry Rd.	Va-8-5362	Dabney Dr., Henderson, NC
Floyd, Burton R., Jr.	SO	15250	122-D Bragaw	Te-2-9180	346 Magnolia, Buena Vista, Va.
Floyd, Daniel B.	SO	15115	307-D Bragaw	Te-4-9179	204 E.17th St., Lumberton, NC
Floyd, James M., Jr.	JR	15217	104-C Bragaw	Te-2-9180	Rt. 6, Lexington, NC
Floyd, John R.	JR		2160 Mayview Rd.	Va-8-2645	2328 65th St., Charlotte, NC
Floyd, Victor M.	JR	15094	223-C Bragaw	Te-2-9185	Main St., Fair Bluff, NC
Floyd, William A.	SR		904 Canterbury Rd.	Te-4-9934	4th St., N.W., Hickory, NC
Fluck, Richard C.	GR		107 Henderson St.	Te-2-7093	Rt. 7, Box 377, Salisbury, NC
Fly, Gale Saben					1419 Vaughn R., Burlington, NC
Flynn, Joseph P.	SR		Clark Hall		Box 12, Chimney Rock, NC
Flynt, Charles H., Jr.	JR	5667	1620 Hillsboro	Te-2-9531	Box 364, Liberty, NC
Fock, David Siew-Pun	EH	3208	108 Gold	Te-2-9263	37 Ann Siang Hill, Singapore
Fogarassy, Peter I.	SO		Berry		64 Emerson St., New Haven, Conn.
Fogle, Helen P.	SP		H-25, Married Stu. H.	Te-3-7805	88 Hanson Rd., Darion, Conn.
Fogle, Jerry W.	FR	4319	212 Berry	Te-2-9363	406 N. Holland St., Dallas, NC
Fogle, Robert G.	JR		H-25 Married Stu. H.		88 Hanson Rd., Darion, Conn.
Foland, Arthur H.	JR	15376	408-B Bragaw	Te-2-9115	Fairview Apts #1, Bluefield, W. Va.
Polsom, James W.	FR		8 Ferndale Lane		211 Ferguson Ave., Newport News, Va.
Forbes, William A., III	JR	4423	128 Owen	Te-2-9487	Box 94, Winterville, NC
Forbes, Wilson A., Jr.	SO	4619	105 Tucker	Te-2-9367	2205 Robinwood Rd., Gastonia, NC
Ford, Dennis K.	SO	5608	2702 Hillsboro	Te-2-1835	Rt. 8, Box 157, Lenoir, NC
Ford, Michael J.	FR	4629	118 Tucker	Te-2-9167	Rt. 2, Box 78, Roanoke Rapids, NC
Ford, Robert N.	SO	3794	326 Becton	Te-2-9372	Box 13, Kure Beach, NC
Forness, Bruce M.	JR	305	McSwain Tr. Ct., Cary	Ho-7-9713	
Fort, Jack B.	JR		317 Calvin Rd.	Te-2-4142	317 Calvin Rd., Raleigh, NC
Fort, James D., Jr.	JR		1709 St. Mary's St.	Te-2-8912	Clarkton, NC
Fort, John Robert	JR	15242	118-D Bragaw	Te-2-9180	1027 Linda Ln., Charlotte, NC
Fort, William I., Jr.	SR				Rt. 2, Box 298, Oxford, NC
Foster, Curtis B.	FR	15070	211-B Bragaw	Te-2-9185	Rt. 3, Selma, NC
Foster, George R.	SO	15270	206-D Bragaw	Te-4-7547	3139 Selwyn Ave., Charlotte, NC
Foster, Ronald F.	JR		F-26, Married Stu. H.		Rt. 1, Box 101, Ferguson, NC
Foster, Thomas A.	FR			Te-3-7865	2310 Van Dyke Ave., Raleigh, NC
Fountain, Donald R.	EH		M-12 Married Stu. Ho.		4716 Lone Leaf Hills Dr., Wilmington, NC
Fountain, Jefferson	FR	4247	219 Turlington	Te-2-9297	D-201 Boylan Apt., Raleigh, NC
Fournier, Erick P.	SR				724 Chamberlain St., Raleigh, NC
Foushee, Charles B., Jr.	SR		614 Chappell Dr.	Va-8-9501	534 Sunset Dr., Sanford, NC
Foushee, John Calvin	FR	3340	208 Bagwell	Te-2-9131	534 Sunset Dr., Sanford, NC
Fouts, William E.	JR		1718 Hillsboro	Va-8-4464	Rt. 4, Franklin, NC
Fowler, David M.	JR		8 Ferndale Lane		1020 Palmetto St., Greensboro, NC
Fowler, George F.	SO	15137	319-A Bragaw	Te-4-9179	Rt. 1, Salisbury, NC
Fowler, Richard Leon	SO	15309	226-D Bragaw	Te-4-9123	210 Dogwood Dr., Mt. Holly, NC
Fowler, Richard S.	JR		341A Hillsboro	Te-3-4808	1502 Bivins St., Durham, NC
Fowler, Robert Louis	SR	15002	101-B Bragaw	Te-2-9129	Bryson City, NC
Fox, Dennis L.	SR		Hi Sch. Teacherage, Cary, NC	Ho-7-9987	1441 N. Rhyne, Gastonia, NC
Fox, Joseph A.	GR		N-26 Married Stu. Ho.		Pulaski, Mississippi
Foxworth, Robert L.	FR	4198	338 Alexander	Te-2-9349	69 Elm, Summit, NJ
Foy, John Frank	SO	3825	24 Becton	Te-2-9261	5904 16 Ave. Dr., Bradenton, Fla.
Frady, James H.	SR	15051	201-C Bragaw.	Te-2-9185	16 Morgan St., Canton, NC
Fraker, Anna C.	GR			Va-8-3373	1897 W. Smallwood Dr., Raleigh, NC
France, Edward A.	FR	3349	217 Bagwell	Te-2-9131	Box 65, Lawrence, Pa.
Francis, Joseph M.	JR	3325	125 Bagwell	Te-4-9219	Star Rt., Conway, NC
Franklin, Asa H.	JR	5656	2513 Clark	Te-2-0268	Kinston, NC
Franklin, Donald E.	SO	15112	307-A Bragaw	Va-8-5927	Box 390, Rt.1, Valdesse, NC
Franklin, Douglas M.					247 W. Elm, Graham, NC
Franklin, Edward C.	SO	5276		Te-2-7184	2113 Luckaway La., Richmond 29, Va.
Franklin, Kenneth V.	EH	4304	104 Berry	Te-2-9350	318 Harrison Ave., Cary, NC
Frants, Robert C.	JR	4518	301 Owen	Te-4-9836	2507 Fairway Dr., Greensboro, NC
Frauenholz, Raymond B.	SO	15032	117-D Bragaw	Te-2-9129	107 Charles St., Havelock, NC
Frazelle, Barry N.	SO			Te-2-3434	500 Harvey, St., Raleigh, NC
Fraser, Robert H.	JR	15190	419-A Bragaw	Va-8-5312	1805 Tippah, Charlotte, NC
Fraser, Theodore B.	FR	3557	225 Syme	Te-2-9150	Rt. 1, Box 82, Mt. Holly, NC
Frazier, James R.	SR	15112	307-C Bragaw	Te-4-9179	709 Woodruff, Charlotte, NC
Frazier, Hal L.	SR	15113	307-B Bragaw	Va-8-5927	709 Woodruff, Charlotte, NC
Frazier, Larry W.	SO		210 Cox Ave.	Te-3-6293	2011 Old Ala Rd., Burlington, NC
Frazier, Winston Earle	SR			Te-2-6127	306 Aycock, Raleigh, NC
Freas, David E.	SO	4310	203 Berry	Te-2-9363	Rt. 2, Walnut Cove, NC
Freck, Larry G.	SO	3715	115 Becton	Te-2-9256	Acme, NC
Freeland, Ernest P., Jr.	SO	3725	125 Becton	Te-4-7791	2309 Rams, Charlotte, NC
Freeland, Robert M.			2226 Hill	Va-8-2916	2309 Rama Rd., Charlotte, NC
Freeman, Bruce L.	JR	4523	306 Owen	Te-4-9300	210 Lawrence Ave., N. Plainfield, NJ
Freeman, Carlton, Jr.	FR	4719	252 Tucker	Te-2-9387	P.O. Box 65, Tuxedo, NC
Freeman, Harold B.	SR			Te-3-5882	1512 1/2 St. Mary's St., Raleigh, NC
Freeman, Kenneth E.	JR			Ho-7-9116	Rt. 1, Box 63, Cary, NC
Freeman, Larry E.	FR	3801	333 Becton	Te-2-9372	Rt. 7, Fayetteville, NC
Freeman, Richard M.	SO	15361	326-C Bragaw	Te-4-9253	3415 Holt St., Charlotte, NC
Freeze, Charlie H.	FR	4146	217 Alexander	Te-4-9746	Box 87, Troutman, NC
Frei, Jack D.	GR				1408 Duke Univ. Rd., Durham, NC
Frekko, Emory F.	JR	15403	420-D Bragaw	Te-4-9754	402 Queens Rd., Sanford, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Freelko, Eugene A.	FR	3340	208 Bagwell	Te-2-9131	402 Queens Rd., Sanford, NC
French, George R.	SO	15034	119-B Bragaw	Te-2-9129	1921 Nun St., Wilmington, NC
Freuler, William D.	JR		I-22 Married Stu. Ho.	Te-4-5939	Rt. 2, Box 106, Halifax, NC
Frick, Harry C.	SO	4718	251 Tucker	Te-2-9387	Rt. 8, Statesville, NC
Frick, Lester Lee	SO			Te-3-0044	811 Merrie Rd., Raleigh, NC
Frickley, Robert E.	SO	4164	238 Alexander	Te-4-9746	Homewood Acres, Siler City, NC
Friday, Leonard L.	SO		2601 Clark	Te-2-8631	817 Carolina Ave., Gastonia, NC
Friend, William E.	FR	3591	327 Syme	Te-2-9222	609 Prince, Goldsboro, NC
Frohman, David B.	FR	3716	116 Becton	Te-2-9256	104 Third St., Leaksville, NC
Fry, Harold L.	SO	15395	416-D Bragaw	Te-4-9754	Rt. 1, Newton, NC
Frye, James H.	SR		1433 Beaver Dam Rd.	Te-4-6976	P.O. Box 1592, Hickory, NC
Fuhrer, Raymond K.					3501 Foxcroft Rd., Charlotte, NC
Fulbright, James C.	SO	3568	304 Syme	Te-2-9222	1227 Tenth Ave., S.E., Hickory, NC
Fulcher, Charles R.	JR		J-16 Married Stu. Ho.	Va-8-3394	J-16 Married Stu. Housing, State Col. Stat.
Fulcher, William F.	SR		184 Horne St.	Va-8-5698	400 S. Taylor St., Rocky Mount, NC
Fulford, Donald W.	FR	3824	23 Becton	Te-2-9261	RFD 2, Farmville, NC
Fuller, David A.	SO		116 E. Park Dr.		116 E. Park Dr., Raleigh, NC
Fuller, David H., Jr.	GR			Te-2-7581	Dorothea Dix Hospital, Raleigh, NC
Fuller, John R.	SR		215 E. Peace St.		Rt. 1, Pisgah Forest, NC
Fuller, Richard V.	SR	15356	324-B Bragaw	Te-4-9253	1938 Harris Rd., Charlotte 7, NC
Fullington, Ronald W.	JR		G-14 Married Stu. Ho.		2001 Sherwood St., Greensboro, NC
Fulp, James F.	FR	4478	223 Owen	Te-2-9252	Stoneville, NC
Fulton, John D.	GR	4621	Tucker	Te-4-3488	Host Apt., Tucker Dorm., Raleigh, NC
Fulton, John S.	GR	4556	343 Owen	Te-4-9300	Box 199, Rt. 1, Wilmington, NC
Fulton, Wesley G., Jr.	GR	3224	122 Gold	Te-2-9263	802 Ferndale Dr., High Point, NC
Funderburk, Jerry N.	SO	4413	118 Owen	Te-2-9115	Rt. 1, Box 398, Kannapolis, NC
Funderburk, Lloyd T.	FR	4685	214 Tucker	Te-2-9387	2033 Camp Green, Charlotte, NC
Furber, Warren O.	FR	4680	207 Tucker	Te-4-9828	501 W. Main Ave., Gastonia, NC
Furr, Benny Joel	JR		812 Henderson Rd.	Te-4-4005	Rt. 2, Albemarle, NC
Furr, Glynn Ray	JR	15378	408-D Bragaw	Te-4-9754	228 Blvd, High Point, NC
Furr, Robert E.	SO	4200	101 Turlington	Te-4-9279	Rt. 1, Stanfield, NC
Furr, Ronald Van	JR		2804, Hillsboro	Te-2-2654	Rt. 2, Box 94-A, Albemarle, NC
Furr, Wilbur F., Jr.	FR		2512 Clark	Te-2-4843	486 Sunnyside Ave., Concord, NC
Futrell, Kenneth R.	SR	3040	304 Watauga	Te-2-9488	Rocky Point, NC
Futrell, Allen H.	FR	3343	211 Bagwell	Te-2-9131	Rt. 2, Box 108, Ahoskie, NC
Futrell, Glenn E.	SO		6 Ferndell Lane	Te-2-2256	Rt. 1, Goldsboro, NC
Futrell, James G.	JR	15233	112-C Bragaw	Va-8-5772	Box 17, Potocasi, NC
Futrell, Robert G., Jr.	SO	15317	304-D Bragaw	Te-4-9253	307 Sewell St., Murfreesboro, NC
Futrell, Thomas M.	FR			Te-2-4290	1504 Greenwood Dr., Raleigh, NC
Gabriel, Roman, Jr.	SO	15038	121-B Bragaw	Te-2-9129	2411 Monroe St., Wilmington, NC
Gaby, Louis I.	GR		H-11 Married Stu. Ho.	Te-4-6881	529 Woodland Hills Dr., Athens, Ga.
Gaddis, Thomas M.	FR	4238	5 Berry	Te-2-9350	357 Lindley Ave., Asheville, NC
Gado, John F.	FR	4147	218 Alexander	Te-4-9746	60 Roosevelt Ave., North Haledon, NJ
Gaffney, Billy P.	JR		2601 Clark	Te-2-8631	572 High, Cramerton, NC
Gagnon, David C.	SO	3585	321 Syme	Te-2-9222	605 E. 3rd St., Ayden, NC
Gagnon, Robert E.	SR		1503 Benehan St.	Te-4-0271	605 E. 3rd St., Ayden, NC
Gahrman, Robert W.			3829 Marcom St.		1271 Andover Rd., Charlotte, NC
Gainey, Millard J.	JR	15033	119-A Bragaw	Te-2-9129	Rt. 4, Dunn, NC
Gainey, Paul V.	SO			Va-8-2932	109 Park Ave., Raleigh, NC
Gaither, John O.	FR	3113	103 Fourth	Te-2-9159	1801 Belvedere Ave., Charlotte, NC
Gaither, Marvin F., Jr.	FR	3610	14 Syme	Te-2-9421	Rt. 2, Statesville, NC
Gallagher, Patrick A.	GR		N-15, Married Stu. H.		Soil Lab., Mexico, Ireland
Gallimore, Lloyd B., Jr.	JR	15121	311-B Bragaw	Te-4-9179	Rt. 1, Box 118, Guilford, NC
Galyon, James R.					
Gamble, Ernest W., Jr.	SR		Watauga		511 W. Council, Salisbury, NC
Gamble, John H.	SO	4596	62 Owen	Te-2-9142	1531 Crystal Rd., Charlotte, NC
Gandy, Robert W.	SO	15067	209-C Bragaw	Te-2-9185	Rt. 3, Concord, NC
Ganguly, Mripendra K.	GR		208 Alumni Bldg.	Te-2-9322	51 Lawfour Rd., Calcutta 30, India
Gantt, Charles A.	GR		1720 Hillsboro	Te-4-0451	2403 Club Blvd, Durham, NC
Garcia, Bertram H.	GR			Te-2-7668	807 Beaver Dam Rd., Raleigh, NC
Garcia, Heredia Carlos S.	SR	3032	214 Watauga	Te-2-9132	Frexes 2, Holguin Ote. Cuba
Garcia, Oscar M.	SR		20 Bagwell	Te-4-3770	20 Bagwell Ave., Raleigh, NC
Gardiner, David C.	JR		204 Park Ave.		Faulkner, Mi.
Gardner, Benjamin A., Jr.	SR	5566		Te-4-8227	Rt. 2, Box 388, Ayden, NC
Gardner, Clifton A., Jr.	FR	3823	22 Becton	Te-2-9261	Rt. 3, Nashville, NC
Gardner, David H.	SO	15307	226-B Bragaw	Te-2-9185	Rt. 1, Roseboro, NC
Gardner, Durward B.	FR	4366	21 Stadium		Rt. 1, Castalia, NC
Gardner, Jack A.	GR		N-27 Married Stu. Ho.	Te-4-3213	625 Berkshire Ave., Pasadena 3, Calif.
Gardner, Joe D.	SR		J-26 Married Stu. Ho.	Te-4-4700	Rt. 1, Dallas, NC
Gardner, Joseph D.			137 Gardner St.		Rt. 2, Box 143, Holland, Va.
Gardner, Robert Lee					231 Bashford Rd., Raleigh, NC
Gardner, Thomas A.	UN	4211	114 Turlington	Te-4-9279	Box 158, Cliffside, NC
Gardner, William E.	SO	3238	102 Welch	Te-2-9119	355 W. Mountain, Kernersville, NC
Gardner, William M.					
Garner, Charles P.	SR	15271	208-A Bragaw	Te-4-9123	216 Rose Ave., Wilmington, NC
Garner, Gilbert G.	SR	3125	207 Fourth	Te-2-9159	1311 Evans St., Morehead City, NC
Garner, James C.	SR			Va-8-4408	423 Wayne Dr., Raleigh, NC
Garner, James M.	SO	3254	205 Welch	Te-2-9119	Rt. 2, Robbins, NC
Garner, Jerry L.	SO	3613	17 Syme	Te-2-9421	Box 518, Aberdeen, NC
Garner, Richard S.	FR	3130	304 Fourth	Te-2-9159	Rt. 2, Box 56, Newport, NC
Garner, Robert N., Jr.	JR	5667	1620 Hillsboro	Te-2-9531	235 Foltz St., Winston-Salem, NC
Garner, Thomas H.	GR			Te-4-4538	5117 Melbourne Rd., Raleigh, NC
Garrett, Jack Allen	SO	86	Rt. 7, Raleigh	Te-3-0138	7119 Folger Dr., Charlotte 7, NC
Garrett, Ray W.	SO		15 Bagwell Ave.	Te-4-0485	Moyock, NC
Garrett, Roy L.	SO	3114	104 Fourth	Te-2-9159	Moyock, NC
Garrison, Edward L.	SO	3534	202 Syme	Te-2-9150	609 Salem Rd., Morganton, NC
Garrison, George W., Jr.	SR	5276	NGS YMCA	Te-2-7184	502 W. Sharpe, Statesville, NC
Garrison, Walter M.	JR		421 Breeze Rd.		Rt. 2, Box 295, Burlington, NC
Garrison, Watson M., Jr.	JR	15063	207-C Bragaw	Te-2-9185	617 Country Club, Burlington, NC

NAME	TR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Garrison, Willard Lee	SO	3312	112 Bagwell	Te-4-9219	Rt. 1, Pfafftown, NC
Garrison, Daniel S.	JR				8th St., Killington, NC
Garrise, Howard R., Jr.	SO				3220 Bedford Ave., Raleigh, NC
Garrise, John Paul, Jr.	FR	3357	225 Bagwell	Te-2-9131	Main St., Conway, NC
Gaskins, David E.	FR	4689	218 Tucker	Te-2-9387	1035 Miller St., Winston-Salem, NC
Gaskins, Karl S.	FR	4597	63 Owen	Te-2-9142	3810 Moultrie, Charlotte, NC
Gately, Richard C.	FR			Te-4-7580	2309 Millbanks St., Raleigh, NC
Gates, James B., Jr.	FR	3334	202 Bagwell	Te-2-9131	Rt. 1, Rice, Va.
Gatewood, Henry H.	GR	3222	210 Gold	Te-2-9263	2623 Old Lex. Rd., Winston-Salem, NC
Gattis, Thomas H.	JR	4592	58 Owen	Te-2-9142	Rt. 5, Box 272, Durham, NC
Gay, Aubrey L.	SR		2718 Clark	Te-2-6451	Rt. 3, Zebulon, NC
Gay, Billy M.	FR	3385	319 Bagwell	Te-4-9151	350 W. Fenn. Ave., Sou. Pines, NC
Gay, Ivan B., Jr.	FR			Te-3-1887	515 Cole St., Raleigh, NC
Gay, James R., Jr.	SO	15217	104-C Bragaw	Te-2-9129	Rt. 2, Walstonburg, NC
Gay, Laura B.	GR			Te-3-6702	1304 Park Dr., Raleigh, NC
Geddie, Edgar M., Jr.	SO			Te-4-4077	316 Forsyth St., Raleigh, NC
Gegenheimer, Robert W.	FR	4720	253 Tucker	Te-2-9387	4703 Friendly Rd., Greensboro, NC
Gehres, Loran L.	FR	4270	305 Turlington	Te-2-9192	42 Westover, Asheville, NC
Geitner, Charles H.	JR	19362	326-D Bragaw	Te-4-9253	520 54 St. N.W., Hickory, NC
Gelber, Michael N.	JR	5662	State Col. Stat.		125 Jehudah-Halevi, Tel-Aviv, Israel
Gentry, Bedford L.	FR		Tucker		Rt. 2, Roxboro, NC
Gentry, Coney O.	FR	4783	356 Tucker	Te-2-9323	State Rd., NC
Gentry, Carl L.	SO	3026	208 Watauga	Te-2-9132	P.O. Box 215, Mt. Airy, NC
Gentry, Kendall Francis, Jr.	SO		602 S. Boylan St.	Te-2-2896	Rt. 2, Roxboro, NC
George, Chandrathill M.	SO	5806	State Col. Stat.	Te-3-3086	Kurichy, Kottayam, India
George, Douglas A.	SR		184 Horne St.	Te-3-4522	2015 Roanoke Dr., Greensboro, NC
Georgiou, Robert V.	JR	3366	234 Bagwell	Te-2-9131	612 S. Metting St., Statesville, NC
Germaine, Winthrop H.	SR	341-A	Cary, NC	Ho-74021	Rt. 1, Cary, NC
Gernert, Peter R.	SO	104	104 Logan Ct.	Va-8-6188	Box K, Andrews, NC
Gerringer, Hugh L., Jr.	FR		125 Brooks Ave.	Te-3-1260	1535 McCormick St., Greensboro, NC
Gettinger, John P.	FR			Te-3-8198	4903 Morehead Dr., Raleigh, NC
Geuge, Thomas Lee	SR		1718 Hillsboro		Rt. 5, Burnsville, NC
Ghosh, Harendra C.	GR	3219	207 Gold	Te-2-9263	Profenors Ora., Agartala, Tripura, India
Gibbs, Frank M.	FR	3131	305 Fourth	Te-2-9159	Box 365, Old Fort, NC
Gibbs, Russell W.	JR	14155	321-D Bragaw	Te-4-9179	Engelhard, NC
Gibson, Edward L.	SO	5566		Te-4-8227	820 Woodruff Pl., Charlotte, NC
Gibson, Gary Joe	JR		1341 Chester Rd.		Rt. 4, Asheville, NC
Gibson, Harry J.	SR	15148	323-D Bragaw	Te-4-9179	Rt. 3, Box 209, Laurinburg, NC
Gibson, Claude A.		15341	316-C Bragaw	Te-4-9253	Rt. 3, Asheville, NC
Gibson, John W.	JR	15291	248-B Bragaw	Te-4-9123	705 Floyd St., Fairmont, NC
Gibson, Johnny W.	SO	15140	319-D Bragaw	Te-4-9179	1305 Oakwood Ave., Kannapolis, NC
Gibson, Larry S.	JR	4690	219 Tucker	Te-4-9828	514 Providence St., Graham, NC
Gibson, Peter M.	SR	15330	312-A Bragaw	Te-4-9253	Rt. 2, Box 58, Laurel Hill, NC
Gibson, Wendell Lee	SP	4750	319 Tucker	Te-4-9739	Rt. 2, Ellerbe, NC
Gibson, William Joel	SR	4636	125 Tucker	Te-2-9388	2426 Sunset Ave., Gastonia, NC
Gidney, Robert S., Jr.	SR	15002	101- B Bragaw	Te-2-9129	401 E. Marion, Shelby, NC
Giersch, Robert Van Cleve	SR	6665	2514 Clark	Te-3-4522	2710 Briarcliff Pl., Charlotte 7, NC
Gietzen, Phillip G.	SO	3260	212 Welch	Te-2-9119	5420 Topping Pl., Charlotte, NC
Gifford, John W.	SO	5566		Te-4-8228	1684 33rd Ave., Vero Beach, Fla.
Gilbert, John Jay, Jr.	FR	3388	322 Bagwell	Te-4-9151	613 N. West St., Ahoskie, NC
Gilbert, Paul L.	FR		1208 College Pl.		908 Davie Ave., Statesville, NC
Gilbert, Walter Lee	JR	15374	406-D Bragaw	Te-4-9754	203 Carolina Ave., Forest City, NC
Giles, Gary D.	JR			Te-2-6052	2600 Wade Ave., Raleigh, NC
Giles, Harrison A., Jr.	SR		2508 Avents Ferry Rd.	Te-2-4960	Rt. 2, Box 586, Roanoke Rapids, NC
Giles, Olin S., Jr.	JR	4254	226 Turlington	Te-2-9297	308 Grandin Rd., Charlotte, NC
Gill, Hal Alan III	FR	4434	140 Owen	Te-2-9115	Westwood St., Laurinburg, NC
Gill, John A.	JR	15130	315-D Bragaw	Te-2-9192	315 Turnpike Ave., Clearfield, Pa.
Gilland, James I.	SO	15120	311-A Bragaw	Te-4-9179	2016 Truman Rd., Charlotte, NC
Gillen, Stacy B.	SO	4246	218 Turlington	Te-2-9297	801 5th St., Steubenville, Ohio
Gillespie, Alex J., Jr.	SR		Rt. 401-A		466 Garfield, Heidelberg, Pa.
Gillespie, Frederick J.	JR		132 Woodburn Rd.	Va-8-6513	404 S. Chapman St., Greensboro, NC
Gillespie, George L.	JR	4519	302 Owen	Te-4-9300	RFD 1, Sylva, NC
Gillespie, Gilbert M., Jr.	SO	5566		Te-4-8227	Box 172, Robbinsville, NC
Gillespie, John M., Jr.	FW	3586	322 Syme	Te-2-9222	2 Rose Ct., Havelock, NC
Gilliam, Frederick M.	GR		202 Alumni Hall	Te-2-9322	P.O. Box 396, Catawba, Southern Rhodesia
Gilliam, David D.	SR		Q-212 Married Stu. Ho.		Box 775, Burlington, NC
Gilliam, James R.		4759	328 Tucker	Te-4-9739	Rt. 4, Box 250-A, Danville, Va.
Gilman, John D.	FR	3015	115 Watauga	Te-2-9447	Rt. 3, Glen Allen, Virginia
Gilmer, David P.	SO		621 1/2 Brooks Ave.	Va-8-3114	714 Cypress St., Bristol, Tenn.
Gilmore, Wesley W., Jr.	SO		5335 E. Lakeside Dr.	Te-2-5041	5335 E. Lakeside Dr., Raleigh, NC
Givets, Stanley S.	SR	3204	104 Gold	Te-2-9263	Rt. 1, 81 Mission Fields, Carmel, Calif.
Glass, Caleb D.	SR			Va-8-2028	Rt. 7, Raleigh, NC
Glosson, Buster C.	FW	3556	224 Syme	Te-2-9150	Rt. 2, Box 255, Greensboro, NC
Glover, Charles E., Jr.	JR	4739	306 Tucker	Te-4-9739	Rion, SC
Glover, Douglas R.					G-15 Married Stu. Ho., State Col. Stat.
Glover, George D.	SR			Te-4-1108	519 West Aycock St., Raleigh, NC
Glover, John W.	GR			Te-4-0516	3008 Churchill Rd., Raleigh, NC
Glover, Stanley W.	JR	4579	43 Owen	Te-2-9142	Rt. 1, Spring Hope, NC
Goldbold, Thomas M.	GR			Te-2-7185	1805 St. Mary's St., Raleigh, NC
Goddard, Charles G.	FR	4786	359 Tucker	Te-2-9323	2101 Hanover, Chattanooga, Tenn.
Godfrey, Homer J.	SR		3414 Hillsboro	Te-3-4808	3417 Ritch Ave., Charlotte 6, NC
Godfrey, Marvin R.					Rt. 1, Box 225, Wilson, NC
Godwin, Randolph Ray	SO	3020	202 Watauga	Te-2-9132	Rt. 5, Dunn, NC
Godwin, Wiley H.	SO		25 Logan St.		304 Horne St., Raleigh, NC
Goff, Benjamin R.	GR		3	Va-8-6734	1-C Brookwood Gardens, Burlington, NC
Goff, Homer B.	SR				Meridian St., Rutherfordton, NC
Goforth, John E.	GR		D-1 Country Cl. Homes	Te-4-8965	103 Meridian St., Rutherfordton, NC
Goforth, Samuel T.	GR			Va-8-3223	1223 Ridge Rd., Raleigh, NC
Goggans, James F.	GR		2820 Van Dyke Ave.	Te-4-4779	Lenox, Ga.
Goins, Frederick L.	FR	4125	130 Alexander	Te-2-9257	171 W. Poplar St., Mt. Airy, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Goins, James D.					426 S. Bragg St., Sanford, NC
Goins, John William	FR	4723	256 Tucker	Te-2-9387	Box 424, Roseboro, NC
Goins, Philip C.	PR	4188	325 Alexander	Te-2-9349	Istanbul, Turkey
Gokcen, Ular R.	JR	5764	208-B Bragaw	Te-4-9123	922 Logan St., Shelby, NC
Gold, James C.	SR		1515 Frank St.		1376 Highland, Fall River, Mass.
Goldberg, Stanley B.	SR		304 E. Park Dr.	Te-2-7638	1631 Cheltenham, Philadelphia, Pa.
Golden, John D.	SO	15325	308-B Bragaw	Te-4-9253	68-37 Yellowstone Blvd., Forest Hill, NY
Goldfarb, Michael B.	SO		105 Chamberlain		519 E. Lane St., Raleigh, NC
Goldin, Joel A.	SR		519 E. Lane St.	Te-3-1860	1598 Normandy Dr., Miami Beach, Fla.
Goldman, I. Barry	SO	4793	367 Tucker	Te-2-9323	Box 528, Swan Lake, NY
Goldstein, Arthur J.	FR	4816	67 Tucker	Te-2-9186	174 Cedar St., Morrisville, NC
Goldstein, Lawrence	JR	15335	314-B Bragaw	Te-4-9253	174 Cedar St., Mooresville, NC
Goldstein, Ronald J.	SO	15276	210-B Bragaw	Te-4-9123	54 Edgeland Rd., Asheville, NC
Goldstein, Ronald P.	SO		304 E. Park Dr.	Te-2-7638	105 Park Ave., Spray, NC
Goldston, James H., Jr.	JR	15105	303-B Bragaw	Te-4-9179	6135 Monticello, Chicago, Ill.
Goldwater, Leon	FR	4816	67 Tucker	Te-2-9186	Rt. 1, Cary, NC
Gombatz, Robert J.					Illoilo City, Philippines
Gonzales, Lilia A.	GR		3201 Churchill Rd.		Almenbares 112, Habana, Cuba
Gonzalez, Enrique D.	SR	5767	24 Park Ave.		2301 Henderson Ave., New Bern, NC
Gooch, James C., Jr.	FR	3737	203 Becton	Te-2-9334	Boiling Springs, NC
Goode, Maxwell W.	SR		1508 Frank St.	Te-3-8165	Rt. 1, Box 208, Elizabethtown, NC
Gooden, Dewitt T.	FR	4668	161 Tucker	Te-2-9388	Box 582, Bladenboro, NC
Gooden, George L.	FR	4745	314 Tucker	Te-2-9323	Kenansville, NC
Gooding, Stephen C.	UN		3021 Leonard St.	Te-3-6251	Rt. 4, Box 43, Salisbury, NC
Goodman, Dennis M.	FR	4589	55 Owen	Te-2-9142	114 Milford Hills Rd., Salisbury, NC
Goodman, Harold K.	FR	4486	231 Owen	Te-2-9410	Box 35, Rt. 1, Des Moines, Iowa.
Goodman, Major M.	GR		1210 Kent Rd.	Te-4-1481	214 Confederate, Salisbury, NC
Goodman, Michael A.	SO	3519	119 Syme	Te-2-9288	Box 56, Norwood, NC
Goodman, Robert G.	FR		Tucker		Rt. 1, Gold Hill, NC
Goodman, Robert Lee	SO	4520	303 Owen	Te-4-9836	112 Joy St., Dunn, NC
Goodman, Sherrill T.				323	2601 Van Dyke Ave., Raleigh, NC
Goodman, William H.	JR			Te-2-0286	Rt. 3, Box 271, China Grove, NC
Goodnight, William H., Jr.	FR	4418	123 Owen	Te-2-9115	1123 Vick Charles Dr., Raleigh, NC
Goodwin, David A.	JR			Va-8-6775	Rt. 2, Apex, NC
Goodwin, Frances Lee	JR		106 Horne St.		Rt. 2, Box 590, Greensboro, NC
Goodwin, Jerry C.	FR	4292	338 Burlington	Te-2-9192	4000 Bufaloe Rd., Raleigh, NC
Goodwin, Lester M., Jr.	PR			Te-2-1592	120 Charles St., Lumberton, NC
Goodwin, Roy A., Jr.	SO	4591	57 Owen	Te-4-9142	Rt. 2, Box 24, New Bern, NC
Goodwin, Vernon L., Jr.	FR	4427	132 Owen	Te-2-9437	Montevista, Marion, NC
Gordon, Timmons H.	JR	5876	211 Alumni Bldg.	Te-2-9322	Rt. 3, Tabor City, NC
Gore, Hugh T.	SR	4315	268 Berry	Te-2-9363	Rt. 3, Tabor City, NC
Gore, Marshall W.	SR	6	Rt. 6, Raleigh, NC	Va-8-2449	Rt. 2, Burgaw, NC
Gorsky, Frederick J.	FR	4214	117 Burlington	Te-4-9279	503 Fourth St., Spencer, NC
Gosney, William M., Jr.	FR	4245	217 Burlington	Te-2-9297	700 5th St., Harvard, Ill.
Gossell, Ronald R.	FR	15354	322-D Bragaw	Te-4-9123	Rt. 3, Holladay, Tenn.
Gosselt, Dorsey M.	GR		E-15 Married Stu. Ho.	Te-4-5211	
				Ext. 324	
Goswick, Carl R., Jr.	SR	15172	409-D Bragaw	Te-4-9757	2400 Vinewood Dr., Durham, NC
Goswick, Thomas E.	SO	15050	201-B Bragaw	Te-2-9185	2400 Vinewood Dr., Durham, NC
Gouge, Wiley L., Jr.	SR			Te-4-5697	5309 West Lakeside Dr., Raleigh, NC
Gowen, Howerton, Jr.	FR	4438	147 Owen	Te-2-9115	429 Hamilton St., Roanoke Rapids, NC
Grady, James E., Jr.	FR	3567	303 Syme	Te-2-9222	Rt. 2, Mt. Olive, NC
Grady, John D., III	FR	4199	340 Alexander	Te-2-9349	403 S. Jefferson St., Goldsboro, NC
Grady, Michael E., Jr.	SO		215 Hillcrest		1623 Marvelle Ave., Rocky Mt., NC
Grady, Perry L.	JR		1508 Frank St.		Rt. 1, Box 171, Mt. Olive, NC
Grady, Robert S.	JR		2718 Clark	Te-2-6451	Rt. 1, Albertain, NC
Grady, William W.	JR			Te-2-2465	38 Dixie Dr., Raleigh, NC
Grady, Zeb D.	FR	4461	204 Owen	Te-2-9410	Rt. 1, Dudley, NC
Graham, Donald S.	SO	15282	212-B Bragaw	Te-4-9123	332 W. Miller, Salisbury, NC
Graham, James Lee	SO		125 Woodburn Rd.		430 N. Bridge St., Elkin, NC
Graham, James Lee	FR	15232	112-B Bragaw	Te-2-9180	Box 151, Yadkinville, NC
Graham, Michael H.	FR	3547	215 Syme	Te-2-9150	430 Rollingwood, Fayetteville, NC
Graham, Phillip R.	SR	15232	112-B Bragaw	Te-2-9180	Box 151, Yadkinville, NC
Graham, John		3227	303 Gold	Te-2-9263	Box 502, Newburgh, NY
Graham, John F.	FR			Te-2-0728	1305 Wake Forest Rd., Raleigh, NC
Graham, Theron E.	JR			Te-2-1932	1508 Frank St., Raleigh, NC
Grainger, Edsel W.	FR	4743	310 Tucker	Te-2-9323	Box 111-C, Tabor City, NC
Grainger, John W.	FR		603 Garden St.	Te-3-2043	Rt. 1, Box 266, Clarendon, NC
Grunnell, Dana B.	GR		1908 Park St.	Te-2-5406	302 S. West End Ave., Lancaster, Pa.
Grant, Eric B.	SO	3011	111 Watauga	Te-2-9447	112 E. Summit Ave., Burlington, NC
Grant, Eugene B., Jr.	SR		1710 Hillsboro	Te-4-2001	Jackson, NC
Grant, Fred Jerry	FR	3785	317 Becton	Te-2-9372	N. Oak Forest Dr., Asheville, NC
Grant, James W.	SO	4715	248 Tucker	Te-2-9387	5543 Robinhood Rd., Charlotte, NC
Grant, Martin S.	SO		1710 Hillsboro	Te-4-2001	1301 Azalea, Wilmington, NC
Grant, William P.		4720	253 Tucker	Te-4-9828	235 Lock Dr., Winston-Salem, NC
Grantam, Raymond A.	FR	3308	108 Bagwell	Te-4-9219	Rt. 5, Goldsboro, NC
Gravelly, Benjamin T.	SO	15123	311-D Bragaw	Te-4-9179	2014 Hopedale Ave., Charlotte, NC
Graves, Alfred A.	SO	4166	248 Alexander	Te-4-9746	Rt. 1, Canton, NC
Graves, George C., IV	FR	3821	20 Becton	Te-2-9261	1157 11th St. Cir., Hickory, NC
Gray, Earl E.					Angier, NC
Gray, Edward	FR	4486	231 Owen	Te-2-9410	773 Palmetto St., Spartanburg, SC
Gray, Erving H.	SR		8 Fernell La.	Te-2-1755	Avon, NC
Gray, J. Lender, III	SO	4206	109 Burlington	Te-4-9279	320 W. 4th Ave., Gastonia, NC
Gray, James A., Jr.	FR	3792	324 Becton	Te-2-9372	Hope Mills, Box 66, NC
Gray, John B., IV	FR	3337	205 Bagwell	Te-2-9131	Rt. 1, Box 27, Wilson, NC
Gray, Robert F.			2314 Hillsboro	Te-4-0451	46 Fairway Dr., Asheville, NC
Gray, Roger F., Jr.	SO		Q-120 Married Stu. Ho.		Rt. 5, Old Lex. Rd., Winston-Salem, NC
Gray, Ronnie L.	FR	4412	117 Owen	Te-2-9473	1002 Tuscarora Ave., Elizabeth City, NC
Gray, Wallace T., Jr.	FR	3388	322 Bagwell	Te-4-9151	310 West St., Ahoskie, NC
Gray, Walter E.	SR	15014	107-B Bragaw	Te-2-9129	935 Oakley Ave., Roanoke Rapids, NC
Gray, William H., Jr.	JR		1500 Hillsboro		1000 Branson, Fayetteville, NC

NAME	IR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Graybeal, Joseph S.	JR	4595	61 Owen	Te-2-9142	Creston, NC
Grdijan, Richard J.		4541	326 Owen	Te-4-9836	Box 44, Rilliton, Pa.
Green, Charles R.	SO	3024	206 Watauga	Te-2-9132	Rt. 2, Brevard, NC
Green, Eldon Leo	JM	15181	413-E Bragaw	Te-4-9757	Pine St., Whiteville, NC
Green, Franklin R.	JR		0 Logan St.	Va-8-6616	2606 Sater St., Durham, NC
Green, Gerry A.	SR				W&L Trailer Haven, Cary, NC
Green, John B.	JR	4474	219 Owen	Te-2-9252	Rt. 1, Midland, NC
Green, Malcolm A.	JR	4347	2 Stadium		2606 Sater St., Durham, NC
Green, Nancy R.	SO		1411 Doughton St.	Te-4-5586	Rt. 2, Candler, NC
Green, Thomas S.	SR	15187	417-B Bragaw	Te-4-9757	Butner, NC
Greene, Charles W.	SO	15408	424-A Bragaw	Te-4-9754	26 Orange St., Canton, NC
Greene, Ernest L., Jr.	SO		Rt. 3, Box 663	Te-3-8573	
Greene, Homer R.	GR		13 Furches St.	Te-2-6452	711 Means Ave., Pittsburgh 2, Pa.
Greene, J. D.	SR			Ho-7-9962	Rt. 1, Cary, NC
Greene, James F., Jr.					3020 Mayview Rd., Raleigh, NC
Greene, Joseph C., Jr.	FR	4726	259 Tucker	Te-2-9387	Rt. 2, Granite Falls, NC
Greene, Nathan D.	GR		Q-107 Married Stu. Ho.		Rt. 1, Gallant, Ala.
Greene, Neil E.	GR			Te-4-8488	2304 1/2 Hales Rd., Raleigh, NC
Greene, William H.	FR	3027	209 Watauga	Te-2-9132	2200 Augusta, Charlotte, NC
Greenwood, Kenneth J.	FR	3350	218 Bagwell	Te-2-9131	17 S. Clark Ave., Somerville, NJ
Gresson, Claude D.	FR	4327	307 Berry	Te-2-9363	Rt. 1, Burlington, NC
Gresson, Roy M.	SO	4330	310 Berry	Te-2-9363	Rt. 1, Burlington, NC
Grigg, Roger A.	GR		3129 Eton Rd.	Te-4-4415	P.O. Box 62, Lenoir, NC
Gregory, Barry R.	SO	3552	220 Syme	Te-2-9150	Rt. 4, Mocksville, NC
Gregory, James W. P.					1119 Rosemont Dr., Reidsville, NC
Gregory, Jarrett G.					
Gregory, Walton C.	SO	3808	Blue Ridge Rd.	Te-2-3020	
Gregory, Wayne E.	SO		2402 Greenway Terr.	Te-4-0832	Rt. 4, Franklin, NC
Gregson, James H.	FR	4129	137 Alexander	Te-2-9257	Rt. 2, Liberty, NC
Gregon, Welbourn Louis	FR	3373	307 Bagwell	Te-4-9151	Rt. 1, Box 23, Laurinburg, NC
Gresham, John R.	FR			Te-2-5385	2812 O'Berry St., Raleigh, NC
Gresham, Robert E., Jr.	SO	15003	101-C Bragaw	Te-2-9129	212 Harris St., Oxford, NC
Greyer, Charles F.					
Gribble, Richard C.	FR	4446	155 Owen	Te-2-9115	200 East 1st St., Kannapolis, NC
Grice, James P.	FR		312 1/2 Forest Rd.		613 West, Graham, NC
Grieger, Frederick	PROF		241 1/2 Everett Ave.	Te-2-2812	2851 Sedgwick Ave., New York, NY
Griffie, Michael T.	FR	3561	229 Syme	Te-2-9288	1312 S. York, Gastonia, NC
Griffin, Charles B.	FR	4645	135 Tucker	Te-2-9388	Box 126, Woodville, NC
Griffin, Charles W.	FR	15308	226-C Bragaw	Te-4-9123	Rt. 1, New London, NC
Griffin, David H.	FR	4431	137 Owen	Te-2-9115	400 Boddie, Nashville, NC
Griffin, Elmo L.	JR.			Te-2-9519	603 Stacy St., Raleigh, NC
Griffin, Joe E., Jr.					
Griffin, Joseph C.	FR	15220	106-B Bragaw	Te-4-9180	RFD 1, Jamestown, NC
Griffin, Joe Simon		4754	323 Tucker	Te-2-9323	Rt. 3, Box 190, Williamston, NC
Griffin, James L.	JR		1710 Hillsboro	Te-4-2001	400 Byrd Blvd., Greenville, SC
Griffin, James R., Jr.		3316	116 Bagwell	Te-4-9217	Box 70, Rocky Mt., NC
Griffin, Larry D.	FR	4446	155 Owen	Te-2-9115	P.O. Box 1295, Kannapolis, NC
Griffin, Marion C.	SO		313 Married Stu. Ho.		Rt. 1, Robersonville, NC
Griffin, Robert F., Jr.			1718 Hillsboro		265 N. Gordon Dr., Winston-Salem, NC
Griffin, Roscoe D.	FR	4454	163 Owen	Te-2-9473	1435 Acadia, Durham, NC
Griffin, Stephen B.	FR	3749	215 Becton	Te-2-9334	116 Dungarton Cir., Aiken, SC
Griffin, Thomas E., Jr.	FR	3044	308 Watauga	Te-2-9488	Rt. 2, Wadesboro, NC
Griffin, Wendell W.	FR	3796	328 Becton	Te-2-9372	Rt. 1, Williamston, NC
Griffin, William T.	FR	4706	236 Tucker	Te-2-9387	313 Glenn Ave., Kannapolis, NC
Griffith, Robert W., Jr.	SO	5665	2514 Clark	Te-3-4522	409 Ford St., Lexington, NC
Griffith, William S.	JR	15052	201-D Bragaw	Te-2-9185	502 Maupin, Salisbury, NC
Grigg, Gaither G., Jr.	JR	15131	315-C Bragaw	Te-4-9179	509 Crescent Hill, Kings Mt., NC
Griggs, Allan D.	JR	4450	159 Owen	Te-2-9159	Rt. 3, Wadesboro, NC
GRimberg, Jack A.	JR	3581	320-D Bragaw	Te-4-9253	Apartado Aereo 37-92, Bogota, Colombia
Grimes, John M.	JR	4159	230 Alexander	Te-4-9746	117 W. Riverside Dr., Smithfield, NC
Grimes, Paul T., Jr.	JR			Te-3-6788	512 Marble St., Raleigh, NC
Grimes, Thomas L.	SR			Ho-7-9323	Box 395, Cary, NC
Grimsley, Daniel L.	SR		2820 Everett	Te-2-0922	Rt. 1, Box 200, Acme, NC
Griset, Kurt B.	SO				1623 Dixie Tr., Raleigh, NC
Grisson, Michael D.	SO	15177	413-A Bragaw	Te-4-9757	1520 Lyon Ave., Henderson, NC
Grisson, William T.	FR	4267	302 Turlington	Te-2-9192	1202 Aiken Dr., Durham, NC
Griewold, Guy D.	SO	15065	209-A Bragaw	Te-2-9185	3706 Louanna Ave., Rt. 1, Downingtown, Pa.
Grizzard, Alfred G.	SO		1415 Hillsboro		423 E. 10th St., Scotland Neck, NC
Groce, Augustus B., Jr.	SO		308 Horne St.	Te-2-7050	500 Lynnwood, Nashville, Tenn.
Groce, Donald H.	JR	3208	108 Gold	Te-2-9263	Rt. 2, Yadkinville, NC
Groce, James O.	SR		1720 Hillsboro	Te-4-0451	2 Kumberly Knoll, Asheville, NC
Groat, John M.	FR	4694	223 Tucker	Te-2-9387	Box 34, Grifton, NC
Grogan, James R.	SO		101 1/2 Oberlin Rd.	Te-3-6901	305 N. 8th Ave., Maydon, NC
Gross, Arthur J.	GR				
Gross, James K.	GR		2405 Clark	Te-2-6543	Rt. 1, Winston-Salem, NC
Grove, Robert B.	FR	3009	109 Watauga	Te-2-9447	1030 Richmond Dr., Rock Hill, SC
Grower, John M.	FR	4343	10 Berry	Te-2-9350	535 N. May St., Sou. Pines, NC
Grubb, Fred D.	SO				2703 Gordon St., Raleigh, NC
Grubb, Herbert W.	GR		337 Hillsboro Rd, Cary	Ho-7-9517	Rt. 1, Max Meadows, Va.
Grubbs, George L.	JR	15400	420-A Bragaw		3920 Commonwealth, Charlotte, NC
Grunder, Martin J.	JR	3258	210 Welch	Te-2-9119	110 Virginia St., Hallside, NJ
Gruzdis, James V., Jr.	SR		7 Enterprise	Te-4-0435	208 Kinney Ave., Thomasville, NC
Gryder, Reid Kent	FR	5001	2304 Hillsboro	Te-4-6930	P.O. Box 302, Rockingham, NC
Guerino, Joseph A.	PROF		107 1/2 Oberlin		14 Pella Ave., Milford, Mass.
Guetti, Nieves F.					3110 Plantation, Raleigh, NC
Guffey, Harvey L.	FR	4704	233 Tucher	Te-2-9387	1607 Glenside Dr., Greensboro, NC
Guion, William S.	SO	3312	112 Bagwell	Te-4-9219	1213 Ideal Way, Charlotte, NC
Gumm, William E.	SO	4257	229 Turlington	Te-2-9297	Rt. 2, Graham, NC
Gunn, Johnnie O.	JR		202 Groveland Ave.		Box 128, Tanceyville, NC
Gunter, Herman C.	JR			74498	RFD 1, Fuquay Springs, NC
Gunter, Thomas J.	FR	4685	214 Tucker	Te-2-9837	1200 E. 11th St., Lumberton, NC
Gunter, Wayne D.	SR			Te-2-9855	Rt. 1, Box 71, Cary, NC
Gupton, Charles F.	SR	5545	222 Hillcrest Rd.	Te-2-3429	Rt. 1, Castalia, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Gurganus, Clyde M.	SR		H-21 Married Stu. Ho.		RFD 1, Box 205, Williamston, NC
Gurganus, Frankie B.	SR		H-21 Married Stu. Ho.		303 Biggs St., Williamston, NC
Gurkin, Charles W.			3414 Hillsboro		4624 Grove Ave., Richmond, Va.
Gurkin, Luther W.	SO		1164 Hawthorne Rd.		Rt. 1, Williamston, NC
Gurkin, Luther H.	SO	4404	107 Owen	Te-2-9437	Box 643, Plymouth, NC
Gurley, Carl Robert, Jr.		4746	315 Tucker	Te-2-9323	Box 146, Princeton, NC
Gurley, Michael K.	FR	4524	307 Owen	Te-4-9300	1700 Walker Ave., Greensboro, NC
Gurley, Paul L.	SO	4583	49 Owen	Te-2-9142	Rt. 5, Goldsboro, NC
Gussow, Mary S.					110 Cox Ave., Raleigh, NC
Guthery, Val John	JR	15122	311-D Bragaw	Te-2-7050	1126 Queens Rd., Charlotte, NC
Guthrie, James R.	FR	4478	223 Owen	Te-2-9410	Rt. 1, Snow Camp, NC
Guthrie, Lydon W.	FR	4800	50 Tucker	Te-2-9237	1349 Granville, Burlington, NC
Guthrie, Thomas Z.	JR	15159	403-C Bragaw	Te-4-9757	745 Highland, Hickory, NC
Guthrie, Vernon C.	JR		21 Enterprise	Te-4-2815	1908 Shepard St., Morehead City, NC
Guy, Buford M.	SO	15369	310-D Bragaw	Te-4-9253	1617 Wiltshire Rd., Salisbury, NC
Guy, Robert W.	JR	15027	115-C Bragaw	Va-8-9733	Rt. 1, Box 326, Fayetteville, NC
Gwaltney, Javy R., Jr.			104 Dixie Tr.		Dudley, NC
Al-Hachim, Abdul Mohammad	SR	5755	State Col. Stat.	Ext. 240	Samarra, Iraq
Hackett, Thomas J.	FR	4449	158 Owen	Te-2-9115	120 Tremont Dr., Asheboro, NC
Hackney, Gerald G. H.			1508 Hillsboro		Rt. 1, Conover, NC
Hackney, Hoyt M.	SR		3414 Hillsboro	Te-2-4808	Weatherspoon, Sanford, NC
Hackney, James A., III	SR	3508	108 Syme	Te-2-9288	405 N. Market, Washington, NC
Hackney, Ralph H.	SO	3313	113 Bagwell	Te-4-9219	N. Market, Washington, NC
Haddad, George M.	JR		300 W. Whitaker Mill	Te-2-2340	Hammons, Lebanon
Haddon, Ralph G.	JR	4212	115 Turlington	Te-4-9279	3045 Idlawood Cir., Charlotte, NC
Haddock, William A.	SR		706 Powell Dr.		110 East Baysboro, Jacksonville, NC
Hadlock, Ronald O.	JR			Va-8-4769	801 W. Morgan St., Raleigh, NC
Haeseler, Isabelle V.	SP	388	Meredith College	Te-3-6461	Meredith Col., Raleigh, NC
Hafer, Gunter B.					Rt. 9, Laurinburg, NC
Hager, Arnold J.	FR	4701	230 Tucker	Te-4-9828	3723 Rogers St., Charlotte, NC
Hager, Harold D.	JR	15372	406-B Bragaw	Te-2-9754	Alexis, NC
Hager, Robert L.	JR	15372	406-B Bragaw	Te-4-9759	Mt. Zion, Alexis, NC
Hager, Ted E.	SR		200 Brooks Ave.	Va-8-5055	218 E. Glendale, Mt. Holly, NC
Raigh, Donald D.	SO	3263	303 Welch	Te-2-9119	900 Restmore, Statesville, NC
El Haidrus, Abdul Wahid	SR	5776	State Col. Stat.		Baghdad, Iraq
Hadre, William J.	SO		2158 Mayview Rd.	Va-8-3004	304 E. South St., Albemarle, NC
Hadir, Leland Moore	SR	15124	313-A Bragaw	Te-4-9179	605 S. Pineview, Goldsboro, NC
Hair, Vaden Be.	GR				Jamesville, NC
Haidovsky, Yoel	JR	5662	H-21 Married Stu. Ho.		22 Jerusalem St., Haifa, Israel
Hakimbaba, Morad	SR	5801	State Col. Stat.	Te-2-3544	Serap, Isfah, Teheran, Iran
Hakimbaba, Naim	SR		2 Logan Ct.	Te-2-3544	Serap, Isfah, Teheran, Iran
Halberstadt, William L., II	SO		7 Enterprise St.	Te-4-0426	712 W. Park Ave., Charlotte 3, NC
Hale, Alan E.	SO		7 Enterprise St.	Te-4-0435	1219 Ridgeway Dr., Wilmington, NC
Hale, Watson N.	FR	3718	118 Becton	Te-2-9256	1517 West Rd., Kinston, NC
Hales, Johnnie D.	FR	4275	313 Turlington	Te-2-9142	RFD 1, Middlesex, NC
Hales, Marion R.	FR	4269	304 Turlington	Te-2-9192	1207 Park Ave. A, Goldsboro, NC
Hall, Augustus S.	SR			Te-3-2116	4054 Brooks Ave., Raleigh, NC
Hall, Arden W.				Te-3-5041	1100 Parker St., Raleigh, NC
Hall, Bert M.	JR	4530	315 Owen	Te-4-9300	Rt. 2, Richlands, NC
Hall, Charles F.	JR		3207 Hillsboro	Te-4-2051	315 W. 21st St., Lumberton, NC
Hall, Charles R.	JR	15045	125-A Bragaw	Te-2-9129	603 6th St., Marion, NC
Hall, David C.	JR	4365	20 Stadium		Box 53, Rural Hall, NC
Hall, George H., III	JR	4475	220 Owen	Te-2-9410	125 Edgewood Dr., Henderson, NC
Hall, James H.	JR	4195	333 Alexander	Te-2-9349	Micaville, NC
Hall, Jesse W., Jr.	FR	4584	50 Owen	Te-2-9142	P.O. Box 46, Stedman, NC
Hall, John L.	GR			Te-2-6401	415 Morrison Ave., Raleigh, NC
Hall, Richard H.	SO	15311	302-B Bragaw	Te-4-9253	712 Nance Ave., High Point, NC
Hall, Robert A.	FR		ASFOIC, Det 595	Ext. 314	917 Carlisle, Raleigh, NC
Hall, Rupert T.	FR	4705	235 Tucker	Te-2-9387	2922 Park Rd., Charlotte, NC
Hall, Thomas D.					
Hall, Willard Ray	SO	3806	4 Becton	Te-2-9261	1619 E. Wright Rd., Greenville, NC
Hall, William H.	SR		G-11 Married Stu. Ho.		2039 Gordon Rd., High Point, NC
Hallett, Thomas E., III	JR	3120	202 Fourth	Te-2-9159	Nassawadox, Va.
Hallman, George O.	GR			Te-2-0575	2804 Barmettler St., Raleigh, NC
Halsey, James C.	SO	3820	19 Becton	Te-2-9261	Box 31, Sparta, NC
Halterson, Oscar T.	SO	4732	265 Tucker	Te-2-9387	701-3rd St., Siler City, NC
Hart, Charles D.	PROF			Va-8-5188	2313 Barmettler St., Raleigh, NC
Hamedani, Pereidoun R.	FR	5765	State Col. Stat.		Kaneghah Ave., Teheran, Iran
Hamilton, Charles Lee	JR		1254 Woodburn Rd.		715 Tussey St., Lexington, NC
Hamilton, Charles Ray	JR		942 Peace Terr.	Te-2-5464	Raleigh, NC
Hamilton, James C.	SO	3313	113 Bagwell	Te-4-9219	Rt. 2, Sharon Hills Rd., Charlotte, NC
Hamilton, James L.	SR		2211 Bernard St.	Te-4-8552	Bethania, NC
Hamilton, Jean A.	SR		106 Horne St.	Te-3-2009	5113 Ponderosa Dr., Fayetteville, NC
Hamilton, John A.	SR		1216 Franklin Rd.	Va-8-9710	P.O. Box 871, Washington, NC
Hamilton, Philip M., Jr.	GR				2351 McMullan Cir., Raleigh, NC
Hamilton, David V.	JR	4336	3 Berry	Te-2-9350	415 W. Knox, Durham, NC
Hamm, Jerry Allen	SO	3772	304 Becton	Te-2-9372	P.O. Box 591, Henderson, NC
Hamme, John V.			124 Kiddick	Ext. 347	2904 Claremont Rd., Raleigh, NC
Hamme, Joseph C.	EN	15165	407-A Bragaw	Te-4-9757	Rt. 3, Oxford, NC
Hammitt, George H.	FR		2514 Clark	Te-3-4522	2645 Union, Concord, NC
Hammond, Charles E.	JR	4591	57 Owen	Te-4-4142	Rt. 1, Linden, NC
Hammond, Clifford M.	JR	4670	163 Tucker	Te-2-9388	Rt. 2, Rowland, NC
Hammond, Leigh H.	GR			Te-2-3247	5105 Newcastle Rd., Raleigh, NC
Hammond, Wayne H.	GR			Te-4-4835	414 St. Mary's St., Raleigh, NC
Hampton, Benny B.	SO	4176	313 Alexander	Te-2-9349	Rt. 1, Box 69, Elkin, NC
Hamrick, Bruce W.	JR		1515 Frank St.		Rt. 4, Shelby, NC
Hamrick, Harold P.	JR			Te-3-0197	3108 Douglas St., Raleigh, NC
Hamrick, Herman H.	JR		8 Dixie Tr.	Te-2-0543	14 W. Randolph Rd., Shelby, NC
Hamrick, James Lewis	FR	3341	209 Bagwell	Te-2-9131	Rt. 8, Box 557, Richmond, Va.

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Hamrick, Philip E.	SR		13 Maiden Ln.		Box 273, Boiling Springs, NC
Hamrick, Victor B.	FR	4665	158 Tucker	Te-2-9388	Box 3, Stanley, NC
Hamrick, Vincent A.	SR	15085	219-B Bragaw	Va-8-5905	180 Park Blvd., Winston-Salem, NC
Han, Linus Kwang Riul	GR	5188	114 Harrison Ave.	Va-8-4201	Seoul, Korea
Hancock, John A.	SO		3414 Hillsboro	Te-3-4808	114 Borden Ave., Wilmington, NC
Hancock, John G.	JR	312	Cary, NC	Te-2-6261	Zerbe P.O., Zerbe, Pa.
Hand, James R.	JR	15403	420-D Bragaw	Te-4-9754	P.O. Box 125, Lowell, NC
Haney, Wayne J.	SO		Box 327 Chapel Hill		Rt. 6, Reidsville, NC
Hanes, Donald Gray	SO	15156	401-D Bragaw	Te-4-9757	1504 Parkview Cir., Salisbury, NC
Hanes, Roger E.	SO			Te-3-2387	5655 Western Blvd., Raleigh, NC
Hanington, Richard W.	FR	3251	203 Welch	Te-2-9119	11 Raymond St., Rockville Centre, NY
Hanna, Anthony R.	SO	3269	309 Welch	Te-2-9119	1722 Chestnut, Charlotte, NC
Hanna, David B.	FR	4516	265 Owen	Te-2-9252	1226 S. Hawthorne Rd., Winston-Salem, NC
Hansen, Norman O.	SR	3583	319 Syme	Te-2-9222	177 Armstrong, Stratford, Conn.
Harakas, Nicolaos K.	GR	15214	102-D Bragaw	Te-2-9185	101 Central Ave., Greenville, SC
Harben, James Allan	FR	4562	381 Owen	Te-4-9836	2125 Boyer, Charlotte, NC
Harbinson, Edgar W.	SR		1508 Frank St.		505 N. Main St., Maiden, NC
Harbison, Earl S., II	FR	3529	129 Syme	Te-2-9288	Rt. 1, Fittsboro, NC
Hardage, John H.	FR		7 Enterprise St.	Te-4-0435	Norlina, NC
Hardage, John H.	SR				
Hardee, Amos Dalton	SA	4106	107 Alexander	Te-2-9257	Rt. 1, Box 89, Grimesland, NC
Hardee, John Hoyt	SR		2332 Grant Ave.	Va-8-9775	Rt. 4, Box 104, Lons, SC
Hardee, Mikael A.	SO	4107	109 Alexander	Te-2-9257	Box 336, Southport, NC
Harden, William Roy	SR		114 Harrison Ave.		105 Brinkley Ave., Plymouth, NC
Hardie, Robert L.	FR	4196	235 Alexander	Te-2-9349	Rt. 1, Clarendon, NC
Hardin, Billy H.	FR	3799	331 Becton	Te-2-9372	94 Old Clyde Rd., Canton, NC
Hardin, Paul D.	JR	15411	424-D Bragaw	Te-4-9754	94 Old Clyde Rd., Canton, NC
Harding, Clifton J.	FR	4760	329 Tucker	Te-4-9239	2626 Hayes St., Hollywood, Florida
Harding, William K.	SR		1164 Groveland Ave.	Te-2-0491	1626 Wendover Rd., Charlotte, NC
Hardison, Franklin D.	FR		2303 1/2 Clark	Te-3-7892	Rt. 2, Wallace, NC
Hardison, Gerald D.	SR		2303 1/2 Clark	Te-3-7892	Rt. 2, Wallace, NC
Hardison, Leon T.	FR	4587	53 Owen	Te-2-9142	RFD 1, Box 261, Plymouth, NC
Hardison, Ralph L.	FR	3770	302 Becton	Te-2-9372	Jamesville, NC
Hardison, Ted Julius	SO	15062	207-B Bragaw	Te-2-9185	Rt. 2, Edenton, NC
Hardister, John P., Jr.	GR		2723 Bedford Ave.	Te-3-7385	104 Cedar Ave., Kannapolis, NC
Hariton, Tasso	JR	15225	108-C Bragaw	Te-2-9180	100 Prospect Ave., Hackensack, NJ
Harmon, Frank C.	SO		202 Groveland Ave.		1811 Rolling Rd., Greensboro, NC
Harper, James Alex.	JR			Te-4-6270	4816 Montacute St., Raleigh, NC
Harper, James R.	SO	4484	229 Owen	Te-2-9410	Box 637, Franklin, NC
Harper, Joseph J., Jr.	JR	4116	120 Alexander	Te-2-9257	Rt. 2, Tarboro, NC
Harper, Michael B.	JR		2710 Vanderbilt	Te-4-9447	920 Avon Rd., Winston-Salem, NC
Harper, Ralph B., Jr.	FR	3590	326 Syme	Te-2-9222	Rt. 3, Box 254, Whiteville, NC
Harrell, George O.	GR	5194	901 Lorimer Rd.	Te-4-8175	Raleigh, NC
Harrell, Marvin R.	SR		1225 Ridge Rd.	Va-8-2-794	3300 Hall Pk., Raleigh, NC
Harrell, Ronald C.	FR		1509 St. Mary's St.	Te-4-8885	440 N. Daughtry St., Rocky Mount, NC
Harrell, Sam P., Jr.	FR	3531	131 Syme	Te-2-9288	518 West Wade St., Wadesboro, NC
Harrell, Zackie W.	FR	3530	130 Syme	Te-2-9288	Rt. 3, Box 106-B, Edenton, NC
Harrelson, Hugh G.	SR	15162	405-B Bragaw	Va-8-6547	228 Broad, Lexington, NC
Harrelson, James C.	JR	3006	106 Watauga	Te-2-9447	142 E. Salisbury, Asheboro, NC
Harriger, John E.	SR	4657	150 Tucker	Te-2-9388	319 Taylor Ave., Falls Creek, Pa.
Harrill, Jay B., Jr.	JR		911 Williamson Dr.	Te-2-8656	120 Brookhill Rd., Shelby, NC
Harrill, Thomas L.	SR	15104	303-A Bragaw	Te-4-9179	Rt. 6, Shelby, NC
Harrington, Archie W.	SO		211 Park Ave.		Rt. 1, Fairmont, NC
Harrington, Betty C.	UN			Te-4-8846	2115 Woodview Dr., Raleigh, NC
Harrington, Cecil F.	JR	15283	214-C Bragaw	Te-4-9123	218 Forest Hill Ave., Winston-Salem, NC
Harrington, Charles H.	SR	3526	126 Syme	Te-2-9288	P.O. Box 516, St. Pauls, NC
Harrington, Johnny M.	SR	5566		Te-4-8227	Rt. 1, Box 212, Ayden, NC
Harrington, Robert Lee, Jr.	SR		1720 Hillsboro		208 N. George St., Goldsboro, NC
Harris, Alton T.	JR		3414 Hillsboro	Te-3-4808	209 Vance St., Laurinburg, NC
Harris, Betty Gail	JR		8 Maiden Ln.	Te-4-5089	1605 Springfield Ave., High Point, NC
Harris, Billy W.	JR				1219 Clarendon, Durham, NC
Harris, Bobby G.	FR	4326	306 Berry	Te-2-9363	236 Wilson St., Albermarle, NC
Harris, Dennis I., Jr.	SR	15212	102-B Bragaw	Te-4-9123	302 Meade St., Greenville, NC
Harris, George E.	FR	4500	249 Owen	Te-2-9252	718 Georgia Ave., Forest City, NC
Harris, Jack R.	FR	4502	251 Owen	Te-2-9252	Rt. 5, Mocksville, NC
Harris, James A.					
Harris, James C.	FR	3025	207 Watauga	Te-2-9132	Rt. 2, Lexington, NC
Harris, John W.	JR	15051	201-C Bragaw	Te-2-9185	Rt. 5, Box 16, Rutherfordton, NC
Harris, John P.	JR		14 Henderson St.	Te-4-6883	306 W. Marion St., Shelby, NC
Harris, Lester Ray	FR	4101	119 Alexander	Te-2-9257	1510 Aycock St., Wilson, NC
Harris, R. G.	SR		UK-46 Verville	Te-4-3055	Rt. 2, Asheboro, NC
Harris, Robert J.	SO			Te-3-9080	1208 College Pl., Raleigh, NC
Harris, Robert W.		4709	239 Tucker	Te-2-9387	Box 276, Old Fort, NC
Harris, Roger W. S.	GR		1508 Frank St.	Te-3-8619	P.O. Box 563, Lusk, NC
Harris, Roy L., Jr.	SR				P.O. Box 156, Raleigh, NC
Harris, Theodore	SR		1906 1/2 Hillsboro	Te-4-6165	326 Cross Creek St., Fayetteville, NC
Harris, Thomas C.	SR		3812 Sherman Ave.	Va-8-5740	3503 Westover Rd., Durham, NC
Harris, Van Taylor	SO	3020	202 Watauga	Te-2-9132	500 School Dr., Williamston, NC
Harris, William B.	SO	4419	115 Owen	Te-2-9437	Oriental, NC
Harris, William H.	SO		8 Fernndell La.	Te-2-1755	107 Carroll St., Windsor, NC
Harris, William R., III	FR			Te-3-7174	726 Gaston St., Raleigh, NC
Harris, William T., Jr.	JR	3233	309 Gold	Te-2-9263	2610 Carver St., Durham, NC
Harrison, Bruce A.	GR		48 W. Dixie Dr.	Va-8-3167	P.O. Box 429, Quitman, Ga.
Harrison, Franklin D.	SR		UK-25 Verville		
Harrison, George W., Jr.	JR		6 Fernndell La.	Te-2-2265	Box 687, Henderson, NC
Harrison, John B.	JR	15158	403-B Bragaw	Te-4-9757	P.O. Box 102, Denton, NC
Harrison, Robert T., Jr.	FR				842 Manchester Dr., Raleigh, NC
Harrison, Thomas E.	SO				Rt. 1, Wake Forest, NC
Harrison, William L.	FR	4113	116 Alexander	Te-2-9257	116 Houghton, Williamston, NC
Harrison, Andrew J., Jr.	SR	15302	224-A Bragaw	Te-4-9123	706 Essex Dr., Wilmington, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Harron, Jackie V.	JR		803 Chamberlain St.		Rt. 2, Weaverville, NC
Harron, James G., Jr.	JR		803 Chamberlain		Rt. 2, Weaverville, NC
Harry, Zeb H.	JR		2504 Vanderbilt Ave.	Va-8-6164	1524 Statesville, Salisbury, NC
Hart, Frank T., II	JR				506 Outler St., Raleigh, NC
Hart, Franklin D.	GR			Te-3-1110	6311 Hillsboro Rd., Raleigh, NC
Hart, James C.	JR	5665	2514 Clark	Te-3-4522	325 Horace Mann Ave., Winston-Salem, NC
Hart, Ralph W.	SR			Te-4-4273	2404 Van Dyke Ave., Raleigh, NC
Hartley, Donald Lee	SR		18 1/2 Horne	Va-8-5698	526 Maple St., Graham, NC
Hartline, Leon M.	SR		1027 Vance St.	Va-8-9588	119 South Tradd, Statesville, NC
Harton, Arthur W.	UN			5-8531	809 Wilkerson Ave., Durham, NC
Hartsell, Gene W.			Uk-41 Vetville	Te-3-6718	
Hartsell, Hal C., Jr.	SR	15125	313-B Bragaw	Te-4-9179	Rt. 1, Box 539, Concord, NC
Hartsell, Wayne Lee	SO	5545	222 Hillcrest Rd.	Te-2-3429	Rt. 1, Box 117, Midland, NC
Hartsell, William N., Jr.	JR	15013	107-A Bragaw	Te-2-9129	Rt. 1, Box 400, Albemarle, NC
Hartzoge, George W.	JR	15053	203-A Bragaw	Te-2-9185	932 4th St. Dr. N.W., Hickory, NC
Harvel, Roy H.	FR	15045	125-A Bragaw	Te-2-9129	Box 164, Biscoe, NC
Harvey, Amos C.	SO		906 Auckland	Va-8-5128	213 Fulton, Wilmington, NC
Harvey, Lloyd S.	FR		10 Enterprise St.		Rt. 4, Thomasville, NC
Harvey, Marion Lee	SO		10 Enterprise		Rt. 4, Thomasville, NC
Hastbrouck, Jonathan L.	FR	3346	214 Bagwell	Te-2-9131	206 Main St., Bladenboro, NC
Hassell, James C.	SO	3268	308 Welch	Te-2-9119	Manteo, NC
Hason, Preston Lee	JR			Te-2-5836	631-A Daniels St., Raleigh, NC
Hastings, Clinton B.		4355	10 Stadium		
Hastings, Jimmie R.	SR	5656	2513 Clark	Te-2-0268	109 Park St., Morganton, NC
Hatch, Donald E.	JR		124 Greveland Ave.		751 Jefferson Pl., Petersburg, Va.
Hatch, George G.	JR	4132	140 Alexander	Te-2-9257	44, Mt. Olive, NC
Hatch, Joyce	SR		Rt 5, Raleigh	Te-3-8892	Rt. 4, Mt. Olive, NC
Hatch, Rex T.	SR		G-21 Married Stu. Ho.		Rt. 4, Mt. Olive, NC
Hatcher, John C.	JR			Te-4-6648	1627 Van Dyke Ave., Raleigh, NC
Hathcock, Allan C.	SR	15014	107-B Bragaw	Te-2-9129	430 Smith St., Albemarle, NC
Hathcock, John H.	JR				1134 Cox Ave., Raleigh, NC
Hathout, Mostafa K.			Animal Ind. Dept.		69 St. Kaser Elaine, Cairo, Egypt
Hatley, Clyde D.	JR		Clark Hall		Rt. 1, Box 24, Oakboro, NC
Hatley, Troy J.	FR	3781	313 Becton	Te-2-9372	Box 97, Hudson, NC
Hatley, Wayne D.	JR		1709 Hillsboro	Te-3-6901	Rt. 5, Charlotte, NC
Hausser, Edwin W.	SO	15008	103-D Bragaw		879 Shallowford Rd., Lewisville, NC
Hausler, Werner	PROF			Te-4-0059	2509 Wake Dr., Raleigh, NC
Havas, John E.	FR	3765	231 Becton	Te-2-9334	Washington Valley Rd., Martinsville, NC
Hawkins, Clarence P.	FR	3761	227 Becton	Te-2-9334	Box 398, Pine Level, NC
Hawfield, Samuel G.	FR	4139	209 Alexander	Te-4-9746	187 Washington La., Concord, NC
Hawkins, George W.	GR		UK-20 Vetville	Va-8-3196	
Hawkins, Jack L.	JR		1718 Hillsboro	Va-8-4469	1020 Richlands Hwy., Jacksonville, NC
Hawkins, Kelly P.	SR		1906 Alexander Rd.		147 Twin Oaks Blvd., Lafayette, La.
Hawkins, William H.	JR		115 Woodburn Rd.	Te-2-2933	Rt. 2, Weaverville, NC
Hawks, Elizabeth A.					18 Dixie Tr., Raleigh, NC
Hawks, Franklin L.	SO		2702 Hillsboro	Te-2-1835	Box 666, Mt. Airy, NC
Hawks, James O.	SO		3400 Ruffin St.		306 Charles St., High Point, NC
Hawn, Kenneth Lee	SR	5667	1620 Hillsboro	Te-2-9531	2215 Crescent Ave., Charlotte, NC
Hayworth, George W.	SO	4626	115 Tucker	Te-2-9367	Rt. 1, High Point, NC
Hayes, Coke A., Jr.	JR	4192	329 Alexander	Te-2-9349	Rt. 2, Ahoskie, NC
Hayes, Oliver T., III	FR	4800	50 Tucker	Te-2-9237	2508 Miller Pk. Cir., Winston-Salem, NC
Hayes, Richard M., Jr.	FR	4314	207 Berry	Te-2-9363	1417 Lons St., High Point, NC
Haynes, Alton W.	SR				907 Mayview Rd., Raleigh, NC
Haynes, Colon W., Jr.	FR	4361	16 Stadium		Rt. 2, Box 378, High Point, NC
Headen, Frank Lee	FR	3798	330 Becton	Te-2-9372	3510 Commonwealth, Charlotte, NC
Heafner, Edwin Z.	JR	4323	303 Berry	Te-2-9363	4106 N. Graham St., Charlotte, NC
Healy, Jeremiah V.	SR		7 Enterprise	Te-4-0435	210 Page St., So. Pines, NC
Hearn, Chase F.	SR			Te-2-2122	2400 Greenway Ave., Raleigh, NC
Hearne, Ronald W.	FR	3258	128 Syme	Te-2-9222	113 E. Sugar Creek Rd., Charlotte, NC
Heath, Bobby O.	SR			Va-8-4206	1101 Brooks Ave., Raleigh, NC
Heath, Bobby S.	SO	4149	220 Alexander	Te-4-9746	RFD 1, Tranton, NC
Heath, Joel C.	FR	4813	63 Tucker	Te-2-9237	106 Glenburnie Dr., New Bern, NC
Heath, John E.	SO	3260	212 Welch	Te-2-9119	Box 391, Rt. 1, Black Mtn., NC
Heath, Leland M.	FR	3312	112 Bagwell	Te-4-9219	Box 55, Deep Run, NC
Heath, Silas E.	FR	4362	17 Stadium		Rt. 1, Pink Hill, NC
Heath, William H., Jr.	GR			Te-4-5042	720 Dennis Ave., Raleigh, NC
Heckstall, William	FR	4105	105 Alexander	Te-2-9257	208 Pitt St., Windsor, NC
Hedden, Ray O.	GR		Q-222 Married Stu. Ho.		Rt. 2, Bryson City, NC
Hedrick, James L.	GR		2619 Broadwell Dr.		900 Preston Ave., Blacksburg, Va.
Hedspeth, Joseph C., Jr.	JR	3325	125 Bagwell	Te-4-9219	Conway, NC
Hedspeth, Luther W., Jr.	SO	15301	222-D Bragaw	Te-4-9123	RFD 1, Conway, NC
Hedspeth, Samuel D., III	FR	3303	103 Bagwell	Te-4-9219	Main St., Conway, NC
Heeden, George L., Jr.	SO	3233	309 Gold	Te-2-9263	105 Raleigh Rd., Wilson, NC
Heffner, Phillip A.	UN	3929	328 Syme	Te-2-9222	111 S. Main Ave., Maiden, NC
Hedge, Raymond G.		4211	114 Turlington	Te-4-9279	1316 W. Clemmonsville Rd., Winston-Salem, NC
Heinbockel, John H.	GR			Te-3-8655	701 W. Morgan St., Raleigh, NC
Heinstein, Peter F.	FR		315 Folk Hall	Ext. 243	2312 Bernard, Raleigh, NC
Helmingner, Paul A.	SO	15192	419-C Bragaw	Te-4-9751	101 Glenwood Rd., Morganton, NC
Helms, Brian B.	JR		132 Woodburn Rd.	Va-8-6513	524 Ashland Dr., Greensboro, NC
Helms, Gary B.	JR			Te-2-2664	5915 Hillsboro Rd., Raleigh, NC
Helms, Harvey N., Jr.	FR	3011	111 Watauga	Te-2-9447	Rt. 4, Albemarle, NC
Helms, Robert F.	JR	4628	117 Tucker	Te-2-9388	Rt. 2, Marshville, NC
Helms, Ronald E.	FR	4276	314 Turlington	Te-2-9192	Rt. 2, Box 385-A, Monroe, NC
Helper, Wilson H.					
Helsabeck, Don J.	SO		AFROTC	Ext. 314	713 Friartuck, Raleigh, NC
Helton, Benny W.	GR				Rt. 1, Cary, NC
Hamby, Jere C.	JR	4319	212 Berry	Te-2-9263	Rt. 3, Box 421, Jacksonville, NC
Henderson, Barry C.	SR			Va-2-7483	411 Barbour, Clayton, NC
Henderson, Billy Joe	GR				502 Sherman St., Texarkana, Tex.
Henderson, Claude B.	FR	4149	220 Alexander	Te-4-9476	Maysville, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Henderson, George C.	SR	4410	115 Owen	Te-2-9437	Box 5, Manteo, NC
Henderson, Lawrence R.	FR	4406	109 Owen	Te-2-9437	587 Broadway, Hendersonville, NC
Henderson, Stephen F.	FR	3396	330 Bagwell	Te-4-9151	117 Bennington Rd., Charlottesville, Va.
Henderson, Thomas H., Jr.	JR	4686	215 Tucker	Te-2-4252	Greenville, NC
Hendrick, Stanley E.	SR		2206 Fairview Rd.		440 E. Washington St., High Point, NC
Hendricks, Philip M., Jr.	GR	3215	203 Gold	Te-2-9263	1014 Greensboro St., Lexington, NC
Henricksen, Gerhard C.	FR	4339	6 Berry	Te-2-9350	216 Forest Wood Dr., Durham, NC
Hendrix, Charles D.	GR	5143	128 Groveland Ave.	Te-2-1030	15-H Calhoun Towers, Greenville, SC
Hendrix, James W.	GR		B-12 Married St. Ho.	Te-2-6955	2101 Evans St. Ext., Greenville, NC
Hennis, Charles H.	FR	4125	130 Alexander	Te-2-9257	245 Country Club Rd., Mt. Airy, NC
Henry, James V.	SO	15024	111-D Bragaw	Te-2-9129	98 Starnes Cove Rd., Asheville, NC
Henry, Zachary A.	GR				Uk-37 Vetville, Raleigh, NC
Henshaw, Lynn E.	JR	3705	105 Becton	Te-2-9256	Rt. 3, Box 402, Waynesville, NC
Hensley, Daniel S.	SO	4298	240 Turlington	Te-2-9192	Mtn. Orphanage, Black Mtn., NC
Henson, Benjamin H.	SR		1015 W. Peace St.	Te-2-7559	1015 W. Peace St., Raleigh, NC
Henson, Wiley H., Jr.	GR			Te-4-3878	5132 Jeffries Rd., Raleigh, NC
Henson, William G.	SR		997 Harp Terr.	Te-2-1860	Rt. 1, Rotary Pk. Rd., Gastonia, NC
Herman, Clarence E.	SR				1400 S. Main St., Lexington, NC
Hernandez, Manuel R.	FR	4936	128 Tucker	Te-2-9388	Santa Cruz Del Sur, Camaguey, Cuba
Herr, William L.	SO	15305	224-B Bragaw	Te-4-9123	P.O. Box 992, Sanford, NC
Herring, Thomas W.	SR		1008 Carlton Ave.	Te-3-9576	Rt. 3, La Grange, NC
Herring, Wallace R.	FR	4180	317 Alexander	Te-2-9349	Rt. 3, Box 27, Clinton, NC
Herrington, Sidney W.	FR	3392	326 Bagwell	Te-4-9151	107 E. Church St., Williamston, NC
Hessler, Howard B.	FR	4650	140 Tucker	Te-2-9388	Country Club La., Wallingford, Pa.
Hester, Donald L.			J-24 Married Stu. Ho.		Box 76, Stanley, NC
Hester, Ralph D.	SO	4636	125 Tucker	Te-2-9367	1007 Montrose Ave., Charlottesville, Va.
Hester, William T.	SO			Te-2-4392	3302 Leonard St., Raleigh, NC
Heustess, James E.	FR	3616	20 Syme	Te-2-9421	Rt. 2, Box 130, Clarkton, NC
Heustess, Richard A.	JR	4313	206 Berry	Te-2-9363	2802 Highland Dr., Wilmington, NC
Hewitt, Freddy A.	FR	3609	8 Syme	Te-2-9431	Rt. 1, Claremont, NC
Heyward, George C.	SO	4506	255 Owen	Te-2-9252	1107 Elizabeth Dr., Laurinburg, NC
Hicks, Hamilton Edward	JR		120 Hawthorne Rd.		730 Windsor Dr., Wilmington, NC
Hicks, Joseph M.	FR	4624	112 Tucker	Te-2-9367	Rt. 3, Roxboro, NC
Hicks, Marvin G.	JR		1718 Hillsboro	Va-8-4464	2321 Newberry Rd., Charlotte, NC
Hicks, Montague H., Jr.	SR		2713 Lockmore Dr.	Te-2-4778	2713 Lockmore Dr., Raleigh, NC
Hicks, Walter G.	JR		1718 Hillsboro	Va-8-4464	2321 Newberry Rd., Charlotte, NC
Higdon, Earl D.	FR	3782	314 Becton	Te-2-9372	P.O. Box 68, Hendersonville, NC
Higgins, Glenn W.	JR		1538½ Sunrise Ave.		534-R-2 Severna Park, Md.
High, Richard G.	Jr	15240	118-B Bragaw	Te-2-9180	1011 Anderson, Wilson, NC
Hightower, Dan	GR			Te-4-6931	2502 Beechridge Rd., Raleigh, NC
Higman, James H.	GR		3040 Farrior Rd.	Va-8-6375	P.O. Box 514, Cortez, Colo.
Hilbert, Jimmy H.	SR			Te-2-0582	407 Gardner St., Raleigh, NC
Hilbourn, Theodore					
Hilburn, William J., Jr.	FR	3817	15 Becton	Te-2-9261	117 Vine, Havelock, NC
Hildreth, Blake E., Jr.	FR	4488	233 Owen	Te-2-9252	Rt. 1, Box 164, Wadesboro, NC
Hileman, Audley E.			1503 Benehan St.		RFD 2, Ford City, Pa.
Hill, Alfred Lee	JR	3126	208 Fourth	Te-2-9159	805 Greenleaf, Elizabeth City, NC
Hill, Gerald F.	JR				988 Wilmington St., Raleigh, NC
Hill, Glenn R.	JR	4792	365 Tucker	Te-2-9323	White Sulphur Springs, NY
Hill, Hugh M.	SO	4626	115 Tucker	Te-2-9367	412 Fourth St., High Point, NC
Hill, James N.	JR	3006	106 Matauga	Te-2-9447	Rt. 1, Box 134, Asheboro, NC
Hill, James R., Jr.	GR		3006 Mayview Rd.	Te-4-0698	Box 74, Abbeville, SC
Hill, Joel David	SO	15027	115-C Bragaw	Va-8-9733	Box 264, Carolina Beach, NC
Hill, John C.	SO			Te-2-0650	1703 Fairview Rd., Raleigh, NC
Hill, Merriman C.					2516 Woods St., Raleigh, NC
Hill, Owen R.	FR	4700	229 Tucker	Te-4-9828	803 Isabelle St., Kannapolis, NC
Hill, Reginald F.	SR				Rt. 1, Box 120, Youngsville, NC
Hill, Richard F.	JR		2405 Clark	Te-2-6543	301 Royal Fines Dr., Arden, NC
Hill, Richard R., Jr.	GR		O-26 Married Stu. Ho.	Te-4-5211	Rt. 1, Box 106, Youngsville, NC
Hill, Robert F.	FR	4694	223 Tucker	Te-2-9387	708 Church St., Grifton, NC
Hill, Robert K.	JR	4625	114 Tucker	Te-2-9388	Rt. 1, Kinston, NC
Hill, Stephen H.	FR	4277	315 Turlington	Te-2-9192	Rt. 4, Albemarle, NC
Hill, Walter W.	FR	3262	302 Welch	Te-2-9119	509 E. High St., Marfreeboro, NC
Hill, William C.	SR	15263	204-A Bragaw	Te-4-9125	24 E. Vernon, Kinston, NC
Hill, William T.	FR	15280	212-B Bragaw	Te-4-9123	Rt. 2, Mars Hill, NC
Hiiliard, Garland K.	JR			Te-2-9961	803 Brooks Ave., Raleigh, NC
Hiiliard, Jerry W.	FR	4498	247 Owen	Te-2-9252	Rt. 1, Pleasant Garden, NC
Hiiliard, Joel S.	FR	4284	322 Turlington	Te-2-9192	701 Maupin, Salisbury, NC
Hilton, Horace G.	GR		809 Turner St.	Te-2-5019	Delta, Utah
Hilton, Kerry G.	JR	15082	217-C Bragaw	Te-2-9185	1018 Greensboro St., Lexington, NC
Himmelwright, James R.	SR		137 Gardner St.		Box 94, Matsavan, NJ
Hine, Colon E., Jr.	FR	4126	131 Alexander	Te-2-9257	2381 E. Sprague, Winston-Salem, NC
Hines, John S.	SO	15248	122-B Bragaw	Te-2-9180	709 E. Main St., Spindale, NC
Hinson, Donald Ray	SO		6 Fernell La.		Rt. 1, Goldsboro, NC
Hinson, Edwin W.			203 Groveland Ave.	Te-4-8486	315 S. Green St., Wadesboro, NC
Hinson, Henry D.	UN	15174	411-B Bragaw	Va-8-6753	Box 1106, Rocky Mount, NC
Hinson, Jack D.	SR		512 Harvey St.	Te-2-6722	Fair Bluff, NC
Hinson, Jackson O., Jr.	JR		125 Cox Ave.		518 Sterling St., Greensboro, NC
Hinson, Thomas	GR		E-21 Married Stu. Ho.		Rt. 2, Bessemer City, NC
Hints, Bernd J.	SO	15080	217-A Bragaw	Te-2-9185	220 Woodrow St., Fayetteville, NC
Hirons, Thomas J.	GR		2226 Hillsboro	Va-8-2916	956 Hillcrest, Adrian, Mich.
Hite, Grear S.					2107 Central, Charlotte, NC
Hix, William F.	SR	3111	101 Fourth	Te-2-9159	429 Worth St., Asheville, NC
Hjort, Howard A.	GR		Ag. Econ. Dept.	Ext. 492	Rt. 1, Cary, NC
Ho Bou Loong					
Hoadley, Arthur B.	SR		2514 Clark	Te-3-4522	3213 Leonard St., Raleigh, NC
Hobgood, Henry M.	FR	4444	153 Owen	Te-2-9115	Stem, NC
Hobson, Garnett W.	FR	4638	127 Tucker	Te-2-9388	Rt. 1, Boonville, NC
Hodge, William F., II	FR	3588	324 Syme	Te-2-9222	Rt. 2, Wake Forest, NC
Hodges, Jerry Lee	JR		1508 Hillsboro	Te-2-6153	100 Carolina Ave., Lexington, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Hodges, Louis C.	SR		107 Ashe Ave.	Va-8-2238	Rt. 1, Dobson, NC
Hodges, Lynwood C.	SO	4421	126 Owen	Te-2-9473	2804 Richmond Hwy., Alexandria, Va.
Hodges, Michael D.	FR		1508 Hillsboro	Te-2-6153	100 Carolina Ave., Lexington, NC
Hodges, Preston E., Jr.	FR	3304	104 Bagwell	Te-4-9219	207 Oakgrove Rd., Norfolk, Va.
Hodges, Robert W.	JR			Te-2-7268	2618 Wade Ave., Raleigh, NC
Hodges, Michael S.	FR	4592	58 Owen	Te-2-9142	211 N. Watauga Ave., Dunn, NC
Hodges, Ronald Wade	FR	4797	47 Tucker	Te-2-9237	10695 Hawthorne Rd., Winston-Salem, NC
Hodgin, William C.	SO	4168	302 Alexander	Te-2-9349	Rt. 1, Red Springs, NC
Hoell, James M.	SO	4459	202 Owen	Te-2-9252	535 Jefferson, Rocky Mount, NC
Hoey, Clyde R., II	JR	5665	2514 Clark	Te-3-4522	131 Brookhill Rd., Shelby, NC
Hofer, Gerhard Ambros	GR		2212 Hope St.	Te-2-4972	Fromillerstr 3111, Austria
Hoffecker, Frank L.	JR	15289	216-D Bragaw	Te-4-9123	2540 Country Club La., Charlotte 5,
Hoffmann, Margaret J.	UN			Va-8-2754	2609 Wade Ave., Raleigh, NC
Hoffman, Roy E., Jr.	SR	3134	308 Fourth	Te-2-9159	1500 Briarcreek Rd., Charlotte, NC
Hogan, Harvey T., Jr.	SR		21 Enterprise St.		439 N. Main St., Graham, NC
Hogan, Philip G.	SR	15387	414-A Bragaw	Te-4-9754	Norman, NC
Hogan, Thomas Lee		3513	113 Syme	Te-2-9288	Rt. 2, Chapel Hill, NC
Holbrook, Cara David	FR	4273	311 Turlington	Te-2-9192	400 E. 26th St., Kannapolis, NC
Holbrook, Richard					
Holcomb, Daniel C.	FR	4731	264 Tucker	Te-4-9828	371 Elk Spur St., Elkin, NC
Holden, Jerry C.	FR	4504	253 Owen	Te-2-9252	614 Old T-Ville Rd., High Point, NC
Holder, Charles R.	JR	15322	308-A Bragaw	Te-4-9253	Rt. 8, Milhaven Rd., Winston-Salem, NC
Holder, Daniel R.	FR			Te-2-1962	2805 Kilgore Ave., Raleigh, NC
Holder, Edward Lee	SO	15323	308-B Bragaw	Te-4-9253	Rt. 8, Milhaven Rd., Winston-Salem, NC
Holder, Roy C.	SR		1718 Hillsboro	Va-8-4464	Rt. 2, Liberty, NC
Holder, Tracy Lee	JR	4639	128 Tucker	Te-2-9388	Rt. 1, Elkin, NC
Holladay, William T.	FR	4238	209 Turlington	Te-2-9297	12 School St., Thomasville, NC
Holland, Charles S., Jr.	SO	3318	118 Bagwell	Te-4-9219	607 Young St., Henderson, NC
Holland, Clarence L., Jr.	GR			Te-4-4380	2436 E. Lake Dr., Raleigh, NC
Holland, Dennis F.	SR	3517	117 Syme	Te-2-9288	Box 30, McBees, SC
Holland, James A.	SR	3527	127 Syme	Te-2-9288	Rt. 1, Box 68, Marion, NC
Holland, Richard T., Jr.	FR	4439	148 Owen	Te-2-9115	Rt. 1, Turkey, NC
Holler, Dan F.	SO			Te-3-9301	3340 White Oak Rd., Raleigh, NC
Holliday, Deryl B.				Te-4-0435	1908 1/2 Park Dr., Raleigh, NC
Holligfield, James G.	JR		16 Enterprise	Te-4-6186	Box 959, Marion, NC
Hollifield, Richard G.	SO		0-25 Married Stu. Ho.	Te-4-9746	Raleigh, NC
Holloman, Charles T.	SR	4165	239 Alexander	Te-2-9115	RPD 1, Seaboard, NC
Holloman, Jerry L.	FR	4451	160 Owen	Te-2-9297	RPD 1, Box 22, Seaboard, NC
Holloway, Oris E.	FR	4262	237 Turlington	Te-4-9253	1101 Chelsea Rd., New Bern, NC
Hollowell, Joseph B., Jr.	SO	15317	304-D Bragaw	Va-8-5110	Rt. 1, Edenton, NC
Holmes, Carroll F., Jr.	JR				618 Ralph Dr., Raleigh, NC
Holmes, Dwight E.	SR		2701 Aven Ferry Rd.		Farmville, NC
Holmes, Robert D.			Q-223 Married Stu. Ho.		212 Folliecoffer Ave., Henderson, NC
Holmes, Roy E., Jr.	SR		16 Enterprise		4012 Park Rd., Charlotte, NC
Holmes, Walter V.	JR				124 Mayondale, Durham, NC
Holshouser, Howard	FR	3536	204 Syme	Te-2-9150	RPD 1, Box 212, Salisbury, NC
Holt, Billy T.	FR	3357	125 Bagwell	Te-2-9131	Rt. 6, Burlington, NC
Holt, Bobby K.	GR	6218	1218 Chaney Dr.	Te-4-0726	Rt. 2, Apex, NC
Holt, Earl T.	SR	4505	254 Owen	Te-2-9252	Rt. 7, Box 732, Salisbury, NC
Holt, Hugh M.	SR		308 Horne St.	Te-2-7050	1906 Maple Ave., Burlington, NC
Holt, Jack M.	SR		103 Chamberlain	Te-2-2705	1304 E. Walnut, Goldsboro, NC
Holt, James T.	GR			Va-8-9759	2118 St. Mary's St., Raleigh, NC
Holt, Kenneth P.	SO	4415	120 Owen	Te-2-9473	Rt. 1, Jamestown, NC
Holt, Robert M., Jr.	SR	4281	319 Turlington	Te-2-9192	Pantego, NC
Holton, George M., Jr.	JR	5566		Te-4-8227	Box 269, Williamston, NC
Honeycutt, Chester B.	JR		2604 Clark	Te-3-7800	Rt. 1, Angier, NC
Honeycutt, Thomas R.	GR	3262	302 Welch	Te-2-9119	Greenville, NC
Hood, Clarence E., Jr.	SO		Q-119 Married Stu. Ho.	Te-4-5211	30 W. 4th St., Newton, NC
Hood, Earl S.	UN	4624	112 Tucker	Te-2-9388	Lake Weccamaw, NC
Booker, Andrew A.	SR		2206 1/2 A Fairview Rd.		Engelhard, NC
Booker, James C.	SO	4583	49 Owen	Te-2-9142	200 Moores Lake Rd., Wadesboro, NC
Booker, James M.	JR	2512	2512 Clark	Te-2-4843	2628 Elon St., Charlotte, NC
Booker, Jonathan W.	GR	4105	105 Alexander	Te-4-8147	Rt. 3, Kenly, NC
Booker, William A., Jr.	FR	3738	204 Becton	Te-2-9334	Charry Hosp., Goldsboro, NC
Boonani, Hossein G.	SO	15340	316-B Bragaw	Te-4-9253	Sherays Shokravi, Teheran, Iran
Boonani, Jafar	GR	5132	State Col. Stat.	Te-2-8086	222 E. Park Ave., Raleigh, NC
Booper, Alvin D.	SR	4401	101 Owen	Te-4-7807	Tuckasegee, NC
Booper, John W., III	FR	4779	352 Tucker	Te-2-9323	410 Gardner St., Reidsville, NC
Booper, William F.	FR	4280	318 Turlington	Te-2-9192	207 Live Oak, Beaufort, NC
Boots, Gene A.	SR	15006	107-B Bragaw	Te-2-9129	Rt. 2, Winston-Salem, NC
Hoover, Clinton W.	JR				5655 Western Blvd., Raleigh, NC
Hoover, Herbert R.	FR	4725	624 N. East St.	Te-4-2591	62 Old Charlotte Rd., Concord, NC
Hopkins, Milton D.	FR		258 Tucker	Te-2-9387	1130 E. 4th St., Charlotte, NC
Hopkins, Troy L.	FR	4424	121 S. Boylan St.		638 Jefferson St., Roanoke Rapids, NC
Hopper, Joseph R.	FR	15330	129 Owen	Te-2-9473	110 Center Ch. Rd., Leaksville, NC
Hopper, William W., Jr.	FR	4143	312-A Bragaw	Te-4-9253	207 Prospect St., Leaksville, NC
Horne, Harry W.	SO	4629	214 Alexander	Te-4-9746	Bickett, Beuaville, NC
Horne, William O., Jr.	FR	15180	413-D Bragaw	Te-4-9757	RPD 1, Box 23, Polkton, NC
Horton, Belton C.	FR	15339	418-D Bragaw	Te-4-9754	914 Woodlawn Rd., Charlotte, NC
Horton, James F.	SR	4455	164 Owen	Te-2-9473	706 Frivette, Wilson, NC
Horton, Oscar Bobby	SR		Rt. 6, Raleigh		509 Chub-Lake, Roxboro, NC
Hoskins, James H.	SR		5719 Waycross St.	Te-2-5176	Box 415, Spencer, NC
Hoskins, Thomas R.	SR			Te-3-0417	Box 415, Spencer, NC
Hoskins, William B., Jr.	SC	4557	345 Owen	Te-4-9836	130 A Cox Ave., Raleigh, NC
House, Owen D.	SR	4673	167 Tucker	Te-2-9388	Box 247, Nashville, NC
House, Gene C.	SO	3338	206 Bagwell	Te-2-9131	1501 Westside Ct., Greensboro, NC
House, Philip E.			D-26 Married Stu. Ho.		Box 201, Robersonville, NC
Houser, Charles Ray	SR		D-26 Married Stu. Ho.		at. 6, Asheville, NC
Houser, Teresa Lynn					Rt. 6, Asheville, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Houser, Thomas D.	FR	4747	316 Tucker	Te-4-9739	Rt. 2, Wals, NC
Houston, John G., Jr.	UN	15039	121-C Bragaw	Te-2-9232	Rt. 1, China Grove, NC
Houston, Oni F., Jr.	SR			Va-8-4656	3340 White Oak Rd., Raleigh, NC
Houston, Randie M.	SR	15415	426-D Bragaw	Te-4-9754	Box 3052, Manteo, NC
Houts, David F.	FR	3380	314 Bagwell	Te-4-9151	207 Linden Ave., Rutledge, Pa.
Howard, Billy J.	FR	3504	104 Syme	Te-2-9288	2519 Banner, Durham, NC
Howard, Donald E.	GR	3219	207 Gold	Te-2-9265	Rt. 1, Pink Hill, NC
Howard, Edward S., Jr.	FR	3377	311 Bagwell	Te-4-9151	Rt. 1, Deep Run, NC
Howard, John C., Jr.	FR	4738	305 Tucker	Te-2-9323	Rt. 1, Deep Run, NC
Howard, Joseph C.	FR	15037	121-A Bragaw	Te-2-9129	603 McGloshon St., Ahoskie, NC
Howard, Winfield D.	FR	4666	159 Tucker	Te-2-9388	Rt. 1, Aulander, NC
Houarth, Birkett, Jr.	GR	3223	211 Gold	Te-2-9263	451 Lyceum Ave., Philadelphia 28, Pa.
Hove, Joseph G.	FR		17 Enterprise	Te-4-6510	Little River Rd., Hendersonville, NC
Howell, Colbert F.	FR	2232	2232 Hillsboro	Te-3-8716	RFD 1, Murfreesboro, NC
Howell, Dewey E., Jr.	SO		1718 Hillsboro	Va-8-4464	Box 195, Goldsboro, NC
Howell, Douglas M.	FR	4581	47 Owen	Te-2-9142	Rt. 1, Oak City, NC
Howell, John H., Jr.	SO	15032	117-D Bragaw	Te-2-9129	2306 Woodland, New Bern, NC
Howell, Jon R.	SW	15086	219-C Bragaw	Va-8-5905	207 Ridgecrest Dr., Lenoir, NC
Howell, Lanny M.	JR	3573	309 Syme	Te-2-9222	2319 Morganton Rd., Fayetteville, NC
Howell, Millard C., Jr.	SO	15251	124-A Bragaw	Te-2-9180	Rt. 2, Wadesboro, NC
Howell, Phillip L.	FR	4548	333 Owen	Te-4-9836	207 Ridgecrest Dr., Lenoir, NC
Howell, William E.	SR		5 1/2 Dixie Ave.	Te-3-3086	Roduco, NC
Hoyle, Dan J.	SR		222 Chamberlain St.	Te-2-0222	RFD 2, Henderson, NC
Hoyle, Johnny Carl	FR	4124	129 Alexander	Te-2-9257	Rt. 3, Lumbdale, NC
Huang, Hanson	GR	3235	311 Gold	Te-2-9263	
Huang, Wei Han					7 1/2 Chung-Shan Rd., Ponchiao, Taipei, Taia, China
Hubbard, Donald G.	SO	3268	308 Welch	Te-2-9119	Rt. 2, Dallas, NC
Hubbard, Ernest F.	JR	15196	421-C Bragaw	Te-4-9757	Stedman, NC
Hubbard, James A.	SO	15307	226-B Bragaw	Te-4-9123	Box 84, Stedman, NC
Hubbard, Philip H.	SR				Rt. 1, Cary, NC
Hubbard, Richard G.			400 Chamberlain		Hildetran, NC
Hubbell, David H.	EW		Dept. Botany&Bact.	Te-2-2126	2717 Vanderbilt Ave., Raleigh, NC
Hudson, Blake P.	SR		2915 Wade Ave.		Raleigh, NC
Hudson, David R.	SO		2316 Hillsboro		515 Pine St., Graham, NC
Hudson, Donald R.	FR	3623	27 Syme	Te-2-9421	Box 9008, Oteen, NC
Hudson, Duncan G., Jr.	PROF		8 Ferndell La.	Te-2-1755	1619 Bates, Birmingham, Mich.
Hudson, Forrest M.	FR	3777	309 Becton	Te-2-9372	519 Aycock St., Washington, NC
Hudson, James H.	ER	15319	306-B Bragaw	Te-4-9253	101 S. Library St., Greenville, NC
Hudson, Lowell T.	SR			Va-8-5170	2349 Bernard St., Raleigh, NC
Hudson, Richard R.	SO	3023	205 Watauga	Te-2-9132	635 Orchard Rd., Valdese, NC
Hudson, Robert Lee	FR	15216	104-B Bragaw	Te-2-9180	738 Wilson St., Roanoke Rapids, NC
Hudson, Robert F., Jr.	FR	4351	6 Stadium		306 Church St., Emporia, Va.
Hudson, Wayne T.	EW	8021	19 Syme	Te-2-9421	Box 8021, Guilford College, NC
Hudson, William R.	JR	3033	215 Watauga	Te-2-9132	Rt. 2, Box 229, Bladenboro, NC
Huffman, Daniel R.	JR		125 Cox Ave.	Va-8-3593	Rt. 2, Catawba, NC
Huffman, David G.	JR		1-24 Married Stu. Ho.		1514 Tarleton Ave., Burlington, NC
Huffman, Jerry Dal	FR	4814	64 Tucker	Te-2-9237	Carpenter, Malden, NC
Huffman, Jerry David	JR		2512 Clark	Te-2-4843	Rt. 2, Box 398, Hickory, NC
Huffman, John W.	FR	15287	216-B Bragaw	Te-4-9123	2201 Chesterfield, Charlotte, NC
Huffman, Loyd Allen	SO		303 Park Ave.	Te-2-1525	Rt. 1, Box 218, Wilkesboro, NC
Huffman, Thomas M.	JR	341-A	Rt. 1, Cary, NC	Ho-7-3965	Rt. 3, Box 181, Salisbury, NC
Huffman, Tod E.	SO	15261	202-C Bragaw	Te-2-5886	2221 N. Center St., Hickory, NC
Huffstetler, Charles E.	SR			Va-8-2848	989 Harp Terr., Raleigh, NC
Huggins, Joseph A.	FR	15121	311-B Bragaw	Te-4-9179	412 Market St., Wilmington, NC
Huggins, Kenneth L.	FR	4574	363 Owen	Te-4-9300	602 Hickory St., Clinton, SC
Huggins, Marion D.	SO	4140	211 Alexander	Te-4-9746	910 N. Gregson St., Durham, NC
Hughes, David S.	FR	3609	13 Syme	Te-2-9421	34 Skyland Cir., Asheville, NC
Hughes, Eugene R.	SR			Te-2-4977	3131 Eton Rd., Raleigh, NC
Hughes, Miles A., Jr.	SO	3343	211 Bagwell	Te-2-9131	116 W. Gale St., Edenton, NC
Hughes, Rudolph, Jr.	SE		812 Wilmington Terr.	Te-3-0167	113 So. Kornegay St., Goldsboro, NC
Hughes, Robert V.	SO	4812	62 Tucker	Te-2-9237	Rt. 1, Swannanda, NC
Hughes, Stanley H.	FR	4815	65 Tucker	Te-2-9237	406 West End, Elizabeth City, NC
Hulbert, William H.	FR	15203	425-B Bragaw	Te-4-9757	161 N. Endor St., Sanford, NC
Hull, Josiah C.	FR			Fo-5-7233	Box 788, Wendell, NC
Hulse, Ronald S., Jr.	FR		2612 Clark	Te-4-9484	2717 Picardy Pl., Charlotte, NC
Humble, Jerry L.	SO		2601 Clark	Te-2-8631	Rt. 1, Jamestown, NC
Humphrey, Clarence K., Jr.	SO	15401	420-B Bragaw	Te-4-9754	G-17 Terminal St., Kinston, NC
Humphrey, James Lee	JR		2404 Clark		Maple, NC
Humphrey, Willie W.	FR	4530	315 Owen	Te-4-9300	Richlands, NC
Humphreys, Paul N.	SO		308 Horne	Te-2-7050	2515 Poole Rd., Raleigh, NC
Humphries, Ervin G.	GR		1323 Ridge Rd.	Va-8-6517	Rt. 4, Shelby, NC
Humphries, Eugene E.	FR		10 Enterprise		1430 Exeter Rd., Charlotte, NC
Humphries, Thomas P.	FR	4287	325 Turlington	Te-2-9192	Rt. 2, Kings Mtn., NC
Huneycutt, Joel A.	FR	4443	152 Owen	Te-2-9115	P.O. Box 273, Lenoir, NC
Huneycutt, Mitchell W.	FR	4566	355 Owen	Te-4-9836	Rt. 1, Oakboro, NC
Hung, Kenneth K.	JR		2402 Hillsboro		Taipei, Taiwan, China
Hunnicut, Emmet F., Jr.	FR			Te-3-8034	730 Gaston St., Raleigh, NC
Hunsucker, Gary T.	FR		3119 Leonard St.	Te-2-8098	Box 75, McAdenville, NC
Hunsucker, Royce H.	SR	4233	202 Turlington	Te-2-9297	106 S. Harding St., Greenville, NC
Hunt, Carlton P.	SR	3258	210 Welch	Te-2-9119	Rt. 2, Angier, NC
Hunt, Carolyn L.	SO			Ho-7-9783	Rt. 1, Cary, N.C., W&L Trailer Haven
Hunt, Gary E.	FR	3815	13 Becton	Te-2-9261	615 Stonecutter St., Spindale, NC
Hunt, James B., Jr.	GR			Ho-7-9783	Rt. 1, Cary, NC
Hunt, Michael A.	FR	4274	312 Turlington	Te-2-9192	245 Charles St., Henderson, NC
Hunt, Robert H.	FR	3702	102 Becton	Te-2-9256	Rt. 2, Box 36, Newton, NC
Hunt, Walter S.	FR			Te-2-8580	425 Guilford Cir., Raleigh, NC
Hunter, Arthur G.	GR		216 Hillcrest	Te-3-4993	970 Polaman Rd., Shreveport, La.
Hunter, Carlton E.	GR		336 Riddick	Ext. 428	812 Rosemont Ave., Raleigh, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Hunter, Harold D.	SR	15408	424-A Bragaw	Te-4-9754	Rt. 2, Box 79, Weaverville, NC
Hunter, Richard F.	JR			Te-3-7208	2210 Van Dyke Ave., Raleigh, NC
Hunter, Roy Wilson					
Hunter, William F.	JR	15322	308-A Bragaw	Te-4-9253	3610 Kingston Rd., Winston-Salem, NC
Huntley, Max M.	SR		713 Boylan Dr.	Te-3-1324	Rt. 1, Box 70, Rutherfordton, NC
Huntley, William K.	SO		1911 Clark Ave.	Te-4-3125	316 N. 3rd St., Smithfield, NC
Huntman, James M.	FR	4692	221 Tucker	Te-4-9828	212 Maynard, Pope AFB, NC
Hupko, Michael B.	FR	4422	127 Owen	Te-2-9437	Pinebluff, NC
Hurlbutt, Guy G.	FR		2109 Buckingham Rd.	Te-3-8057	Rt. 4, Box 155, Augusta, GA.
Hurst, George A.	GR	15019	109-C Bragaw	Te-2-9129	88 Fease Ave., Verona, NJ
Husenlin, Fayea A.	FR		117 Forest Rd.	Te-3-4080	Bereb-Ramallah, Jordan
Hussey, Inez T.	GR				Rt. 3, Asheboro, NC
Hussey, V. Hal	FR	4761	330 Tucker	Te-4-9739	Rt. 1, Robbins, NC
Hutchens, Jerry Lee	UN	15110	305-C Bragaw	Te-4-9179	Box 63, Yadkinville, NC
Hutcheson, James S.	SO	15219	106-A Bragaw	Te-2-9180	2411 Elizabeth Ave., Winston-Salem, NC
Hutchins, Andrew J. M., Jr.	GR		3800 Western Blvd.	Te-4-7009	104 Johnson St., Canton, NC
Hutchins, Calvin M.	FR	4646	136 Tucker	Te-2-9388	901 Walnut St., Winston-Salem, NC
Hutchins, George S.	JR	15302	224-A Bragaw	Te-4-9123	201 Gulf St., Sanford, NC
Hutchins, Phillip M.	FR	4796	45 Tucker	Te-2-9186	Rt. 8, Elliott Rd., Winston-Salem, NC
Hwang, Vincent Y.	GR		Dept. Exp. Stat.		65 Yung-Fu, Tainan, Formosa
Hyatt, Charles E.					1419 Lutz Ave., Raleigh, NC
Hyatt, Charles Edward	JR	3584	320 Syme	Te-2-9222	Rt. 1, Elkin, NC
Hyler, John R., Jr.	FR	4490	236 Owen	Te-2-9252	214 McGinnis Ave., Lincolnton, NC
Iaeger, Paul F.	SO	4635	124 Tucker	Te-2-9388	1330 Avenue C, Reading, Pa.
Icenhour, Garrel, Jr.	SO	4625	114 Tucker	Te-2-9388	Rt. 1, Taylorsville, NC
Idol, Tony G.	SO	4204	105 Turlington	Te-4-9299	Box 329, Rt. 1, Colfax, NC
Iman, Larry David	FR	4680	207 Tucker	Te-4-9828	608 Jackson Pk. Rd., Kannapolis, NC
Imperiale, Maria Susana A.		5457	State Col. Stat.		Morano 1078, Vtuerto, Argentina
In Nhel			5 Dixie Ave.		Speu, Srok Speu, Kg Cham, Cambodia
Inge, Donald E.	SR		1124 Parker St.	Va-8-5146	1321 Elm, Weldon, NC
Ingle, Joel G.	FR	3588	324 Syme	Te-2-9222	Rt. 6, Shelby, NC
Ingold, Charles R.	FR	15284	214-D Bragaw	Te-4-9123	2822 Glenn Ave., Winston-Salem, NC
Ingram, Dicky D.	SO	15386	412-D Bragaw	Te-4-9754	Wt. Gilead, NC
Ingram, Donald R.	SO		115 Hawthorne		Star Rt, Swansboro, NC
Ingram, James A.	FR			Te-3-6832	615 New Rd., Raleigh, NC
Ingram, James E.	JR	3111	101 Fourth	Te-2-9159	Star Rt., Kernersville, NC
Ingram, Joel W.	FR	4655	148 Tucker	Te-2-9388	Rt. 2, Albemarle, NC
Imman, Gene E.	SR		618 Chappel Dr.	Te-4-0098	403 Cottage, Fairmont, NC
Irvine, Martha E.	UN			Va-8-9698	Rt. 4, Raleigh, NC
Isehour, John H., Jr.	SR		2608 Kilgore	Te-4-2934	Box 1249, Salisbury, NC
Isehour, Joseph W., Jr.	FR	3267	307 Welch	Te-2-9119	Rt. 2, Box 489-A, Concord, NC
Iskyan, Howard S.	FR	15200	423-C Bragaw	Va-8-2897	1415 Broad St., Durham, NC
Isler, Simmons R.	JR	5276	YMCA	Te-2-7184	1100 Broadmoor Dr., Charlotte 9, NC
Isley, Larry R.	JR		1720 Hillsboro	Te-4-0457	Martinsville, NC
Isley, Robert L.	FR	4752	321 Tucker	Te-2-9323	Rt. 1, Box 10, McLeanville, NC
Istrabadi, Rasoul M.			3023 Leonard St.	Te-4-7172	Raleigh, NC
Ives, Charles L., III	FR			Te-4-9691	1313 College Pl., Raleigh, NC
Ivey, Anne B.	SO			Te-4-3386	5245 Vann St., Raleigh, NC
Ivey, James G.	FR	4169	303 Alexander	Te-2-9349	Rt. 1, Orrum, NC
Ivey, Randall M.	SR	3022	204 Watauga	Te-2-9132	9-N Lake Village, Wilmington, NC
Jackson, Billy Joe	FR	4673	167 Tucker	Te-2-9388	914 Falls Rd., Rocky Mount, NC
Jackson, Carl R.	SR			Te-4-5313	2120 Mayview Rd., Raleigh, NC
Jackson, George G.	SO	15255	126-A Bragaw	Te-2-9180	RFD 6, Greenville, NC
Jackson, George G.	SR	5656	2513 Clark	Te-2-0268	Elm City, NC
Jackson, Gerald F.	SR		3410 1/2 Hillsboro	Va-8-5119	702 Bridges St., Morehead City, NC
Jackson, Ira Jerome, III	FR	3047	311 Watauga	Te-2-9488	Middleburg, NC
Jackson, James H.	SO	4770	340 Tucker	Te-2-9323	Rt. 1, Mooresboro, NC
Jackson, John W.					
Jackson, Michael C.	FR	4582	48 Owen	Te-2-9142	Chub Lake, Roxboro, NC
Jackson, Philip S.	SR	15295	220-B Bragaw	Te-4-9123	Box 21, Pittsboro, NC
Jackson, Raymond E.	SR		947 N. Blount		RFD 1, Box 160, Watha, NC
Jackson, Ronald V.	FR	4686	215 Tucker	Te-2-9387	Rt. 1, Dunn, NC
Jackson, William D.	JR	3538	206 Syme	Te-2-9150	505 Outier, St. Pauls, NC
Jackson, William M.	JR	5665	2514 Clark	Te-3-4522	430 Dartmouth Rd., Winston-Salem, NC
Jacobs, Elbrus R.	FR	4458	201 Owen	Te-2-9252	Box 942, Badin, NC
Jacobs, Phillip N.	SR		711 Green St., Durham	8-5258	470 Penn. Ave., Freeport, NY
Jalali, Feraydoun	JR	5787	124-D Bragaw	Te-2-9180	911 Shah, Tehran, Iran
Jamerson, Charles D., Jr.	SR		2512 Clark	Te-2-4843	Coolsesee, NC
James, Allen N.	FR	15412	426-A Bragaw	Te-4-9754	Mt. Pleasant, NC
James, Bartlett L.	FR	4645	135 Tucker	Te-2-9388	Rt. 4, Elizabeth City, NC
James, Carlton A.	JR			Te-4-3975	718 Brooks Ave., Raleigh, NC
James, Elmo B.	SO	3336	204 Bagwell	Te-2-9131	Box 122, Everetts, NC
James, Steve C.	SR			Ho-7-9621	Rt. 1, Cary, NC
James, Thomas W.	GR		3029 Farrior Rd.	Te-2-7267	Rt. 7, Box 64, Burlington, NC
James, William R., III	SO		308 Horne St.	Te-2-7050	465 Sheffield Dr., Winston-Salem, NC
Jameson, Perry H.	JR	3384	312 Bagwell	Te-4-9151	Jackson, NC
Jameson, Jon E.	FR	3730	Becton		400 N. State St., Dorer, Del.
Janis, Alyn James	SR		117-B Park Ave.	Te-3-1083	603 Rockland Rd., Wilmington 3, Del.
Janis, Edmund P., Jr.	GR		M-13 Married Stu. Ho.		Rt. 2, Quiney, Ill.
Jarrett, James P., Jr.	FR	15150	325-B Bragaw	Te-4-9179	1419 Trinity Ave., High Point, NC
Jarrett, Olin, Jr.	FR	15152	325-D Bragaw	Te-4-9179	Rt. 1, Marshall, NC
Jarvesoo, Elmar	GR		1601 Hillsboro	Te-2-6601	5 Pleasant, Amherst, Mass.
David, Soleiman	JR	5281	301 Watauga	Te-2-9488	28 seri Rashti, Teheran, Iran
Jefferies, Clinton L., Jr.	JR			Te-4-9433	214 Faircloth, Raleigh, NC
Jefferds, Calvin B.	JR		115 Hawthorne Rd.		Rt. 3, Darlington, SC
Jeffreys, Betsy J.	UN			Te-3-2566	Rt. 7, Raleigh, NC
Jeffreys, Nicholas B.	UN			Te-4-8577	329 Morrison Ave., Raleigh, NC
Jeffries, James M.	SO			Va-8-2972	300 Chamberlain St., Raleigh, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Jeffries, Kenneth F.	SR				Mt. 1, New Hill, NC
Jeffries, Samuel E.	JR			Te-2-4357	711 W. North St., Raleigh, NC
Jenkins, Carlton M.		3377	311 Bagwell	Te-4-9151	RFD 2, Deep Run, NC
Jenkins, Edward Lee, Jr.	FR			Te-2-9523	1705 Fairview Rd., Raleigh, NC
Jenkins, Fred A.	JR		3918 Sherman Ave.	Va-8-2755	441 Plymouth Ave., Charlotte, NC
Jenkins, Henry C.	JR			Va-8-6730	3821 Western Blvd., Raleigh, NC
Jenkins, Henry S.	JR	15051	201-C Bragaw	Te-2-9185	Rt. 1, Box 204, Rutherfordton, NC
Jenkins, Jerry Lionel	FR	3365	233 Bagwell	Te-2-9131	5 Rohanen Ave., Rockingham, NC
Jenkins, Larry S.	SO			Te-2-3653	5109 Newcastle Rd., Raleigh, NC
Jenkins, Lemuel Howard	JR			Te-2-0275	2308 Hillsboro, Raleigh, NC
Jenkins, Samuel F., Jr.	GR		Uk-26 Vetville	Te-4-7186	RFD 1, Oxford, NC
Jenkins, Wilber H.	SR	4699	228 Tucker	Te-2-9387	Stella, NC
Jennings, Paul H.	GR	91	Rt. 1, Cary		191 Trapelo Rd., Belmont, Mass.
Jensen, Erik A.	SO	4199	339 Alexander	Te-2-9349	113 E. Brontwood Rd., Greensboro, NC
Jensen, Joel K.	SO	15388	414-B Bragaw	Te-4-9754	15 Hamden Rd., Asheville, NC
Jernigan, Connie H.	FR	3025	207 Watagua	Te-2-9132	Rt. 5, Dunn, NC
Jessen, Nicholas C.	FR	4654	147 Tucker	Te-2-9388	1522 Club Dr., Lynchburg, Va.
Jessup, Don Blackwell	FR	3374	308 Bagwell	Te-4-9151	2121 Raeford Rd., Fayetteville, NC
Jester, Kenneth G.	GR		203 Alumni Bldg.	Te-2-9322	264 Red Mill Rd., Newark, Del.
Jestter, Frederick R.	GR		412 S. Boylan Ave.	Te-2-4386	102-55 188 St., Hollis 23, NY
Jin Chia Ren			10 Dixie Tr.	Te-4-3306	45 Carnation Rd., Kowloon, Hongkong
Jivatode, John R.	SR			Te-3-4189	2839 O'Berry St., Raleigh, NC
Johnson, Albert F., Jr.	FR	4641	130 Tucker	Te-2-9388	3672 Cornell Blvd., Winston-Salem, NC
Johnson, Barry Lee	FR	4536	321 Owen	Te-4-9836	1250 Peace Haven Rd., Winston-Salem, NC
Johnson, Bobby Lee	JR	1508	Frank St.	Va-8-6786	Raleigh, NC
Johnson, Carol H.	SR			Te-4-1401	3921 Arrow Dr., Raleigh, NC
Johnson, Charles D.	JR	3527	127 Syme	Te-2-9288	Rt. 1, St. Pauls, NC
Johnson, Cynthia G.	FR		717 Gaston St.	Te-2-5367	408 Vann St., Clinton, NC
Johnson, Dale R.	SO	4649	139 Tucker	Te-2-9367	1740 W. Davis St., Burlington, NC
Johnson, David A.	FR	4761	330 Tucker	Te-2-9323	Rt. 1, Smithfield, NC
Johnson, Donald T.	SO				Box 273, Dallas, NC
Johnson, Edward E.	SO	15339	316-A Bragaw	Te-4-9253	Rt. 4, Dunn, NC
Johnson, Edward J.	SR		F-11 Married Stu. Ho.		*t. 1, Box 173, Wallace, NC
Johnson, Fred B.	JR			Te-2-3019	125 King William Rd., Raleigh, NC
Johnson, Gerald L.	SR		Rt. 1, Cary	Va-8-5938	Moss Springs Rd., Rt. 2, Albemarle, NC
Johnson, Homer Ray	FR	4258	230 Turlington	Te-2-9297	Rt. 2, Dunn, NC
Johnson, Howard Leon	PROF		10 Enterprise		Box 253, Mt. Gilead, NC
Johnson, Hugh A.	FR	4669	162 Tucker	Te-2-9367	Rt. 2, Newton, NC
Johnson, Jackie B.	JR		3014 Fairview Rd.		Finemot St., Draper, NC
Johnson, James H.	SR		7 Enterprise	Te-4-0435	1314 Norton, Durham, NC
Johnson, Joe D.	SR	7438	Dorthea Dix Hosp.	Va-8-4532	Dorthea Dix Hosp., Raleigh, NC
Johnson, John H.	GR			Te-3-5780	2504 Greenway Ave., Raleigh, NC
Johnson, Joseph E.	UN			Te-3-3166	812 Lake Boone Tr., Raleigh, NC
Johnson, Joseph H.	JR			Te-2-1724	2602 Wade Ave., Raleigh, NC
Johnson, Jules D.	JR	15327	310-B Bragaw	Te-4-9253	P.O. Box 951, Shelby, NC
Johnson, Louise C.	SR			Va-8-5938	Rt. 1, Cary, NC
Johnson, Michael J.	FR	4451	160 Owen	Te-2-9115	308 Guion St., New Bern, NC
Johnson, Preston B.	JR		N-18 Married Stu. Ho.	Va-8-6728	207 W. Church St., Benson, NC
Johnson, Ray E.	GR		356 Williams Hall	Ext 209	East View, Ky.
Johnson, Richard M.	SO		203 Groveland Ave.	Te-4-8486	611 N. Main St., Graham, NC
Johnson, Roger W.					5 Pates Apts., Millbrook, NC
Johnson, Sigurd A.				Te-3-2797	1806 Oberlin Rd., Raleigh, NC
Johnson, Stephen F.	FR		104 Folk St.		525 S. 3rd St., Smithfield, NC
Johnson, Tapley O.					Rt. 21, Wake Forest, NC
Johnson, Thomas M., Jr.	FR		103 Becton	Te-2-7462	2623 Fairview Rd., Raleigh, NC
Johnson, William F.	FR	3703	N-23 Married Stu. Ho.	Te-2-9256	Rt. 1, Oxford, NC
Johnson, Bruce O.	GR			Te-3-1173	33 Norberry Dr., WFG. 8, Man., Canada
Johnson, David G.	SO				4116 Galax, Raleigh, NC
Johnson, Henry W.	FR	4536	112 Cox Ave.	Te-4-9300	500 S. Mendenhall St., Greensboro, NC
Johnson, Peter L.	FR	3711	321 Owen	Te-2-9256	207 Diamond Spring Rd., Denville, NJ
Johnson, Richard M.	FR		111 Becton	Va-8-5773	Box 236, Yanceyville, NC
Johnson, Warren E.	GR		705 W. Morgan	Te-4-5721	Rt. 1, Box 20, Winters, Calif.
Johnson, William H., III	SO			Te-2-9323	100 Faircloth St., Raleigh, NC
Johnson, William J.	SO	4790	363 Tucker		Rt. 4, Mebane, NC
Johnson, William D.	JR		D-25 Married Stu. Ho.		3130 Barnhill Dr., Charlotte, NC
Johnson, William L.	JR	15040	125-B Bragaw	Te-2-9191	223 Kessington, Greensboro, NC
Joiner, Charles R.	FR	3820	19 Becton	Te-2-9261	Box 306, Sparta, NC
Jolls, Kenneth R.	SR	6368	Raleigh, NC	Te-3-7819	
Jolly, David F.	SR		211 Park Ave.		170 Hilltop La., Norris, Tenn.
Jones, Billy H.	SR			Te-3-8071	2700 Peachtree St., Raleigh, NC
Jones, Billy O.	FR	4170	304 Alexander	Te-2-9349	Rt. 1, Smithfield, NC
Jones, Bolton W., Jr.	FR	4513	262 Owen	Te-2-9252	906 Kenan St., Wilson, NC
Jones, Charles B.	FR	3521	121 Syme	Te-2-9228	1002 Edgerton St., Goldsboro, NC
Jones, Charles C.	FR	15402	420-C Bragaw	Te-4-9754	405 Olive Ave., Lenoir, NC
Jones, Charles Edward	SO	15355	324-A Bragaw	Te-4-9253	3028 Atterberry Dr., Charlotte, NC
Jones, Charles F.	FR	4153	224 Alexander	Te-4-9746	410 Northridge St., Greensboro, NC
Jones, Charles Richard	SO	4247	219 Turlington	Te-2-9297	Fitt St., Farmville, NC
Jones, Dan H.	FR		2211 Hope St.	Te-4-1782	Hwy 301, Lucama, NC
Jones, Donald B.	JR			Te-3-6106	Rt. 5, Raleigh, NC
Jones, Edgar W.	JR	4303	103 Berry	Te-2-9363	1203 Madison, Greensboro, NC
Jones, George T.	JR	15245	120-C Bragaw	Te-2-9180	P.O. Box 1202, New Bern, NC
Jones, Harold H.	FR	4194	331 Alexander	Te-2-9349	Rt. 1, Box 166, Felham, NC
Jones, Harry L., Jr.	FR	5665	2514 Clark	Te-3-4522	1204 Brantley Rd., Kannapolis, NC
Jones, Howard Wayne	FR	15238	116-D Bragaw	Te-2-9180	2910 Royston Rd., Charlotte, NC
Jones, James B.	FR	3791	323 Becton	Te-2-4372	Rt. 1, Kenly, NC
Jones, James Lloyd	SO	3618	22 Syme	Te-2-9421	Rt. 4, Box 252, N. Wilkesboro, NC
Jones, Jerry Lee	SO	3618	Raleigh	Ho-7-3920	P.O. Box 5663, Raleigh, NC
Jones, Jimmie Gee	FR			Ge-8-5479	P.O. Box 293, Henderson, NC
Jones, John Paul	FR			Te-2-9256	Rt. 1, Snow Hill, NC
Jones, Johnny M.	FR	3720	120 Becton		

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Jones, Jon E.	FR	3560	228 Syme	Te-2-9150	2730 University Dr., Durham, NC
Jones, Joseph S.	SO	3513	113 Syme	Te-2-9288	615 S. College, Newton, NC
Jones, Marshall B.	JR	4553	339 Owen	Te-4-9836	1403 W. 10th Ave., Gastonia, NC
Jones, Morris Len	JR		2316 Hillsboro	Te-4-5452	Rt. 1, Box 136, Burgaw, NC
Jones, Richard F.	JR			Va-8-2032	1300 Dixie Tr., Raleigh, NC
Jones, Robert F.	JR	15047	125-C Bragaw	Te-2-9129	409 W. Church St., Elizabeth City, NC
Jones, Robert Hullen	FR	4473	218 Owen	Te-2-9410	719 E. Elliott Ave., Portsmouth, Va.
Jones, Robert William	FR	15201	423-D Bragaw	Va-8-2897	Rt. 1, Alexander, NC
Jones, Roger Alan	FR	4485	230 Owen	Te-2-9412	2328 S. Scales, Reidsville, NC
Jones, Rosalie B., Jr.	FR	3581	317 Syme	Te-2-9222	Rt. 2, Zebulon, NC
Jones, Rodolph	JR	3217	205 Gold	Te-2-9263	Brunswick, Tenn.
Jones, Stephen P.	FR	4618	103 Tucker	Te-2-3188	201 Caterbury Rd., High Point, NC
Jones, Stuart H.	FR	4214	117 Turlington	Te-2-9279	RFD 1, Maple Hill, NC
Jones, Thomas C.	SR		2512 Clark	Te-2-4843	715 Front St., Beaufort, NC
Jones, Thomas Lane	SR	3218	206 Gold	Te-2-9263	532 Country Club Rd., Brevard, NC
Jones, Walter B., Jr.	SO			Te-3-0936	707 E. Pineland Dr., Raleigh, NC
Jones, Walter H., Jr.	SO			Te-3-9282	3332 Baugh St., Raleigh, NC
Jones, Walter Vann	FR	4513	262 Owen	Te-2-9252	207 Broad St., Wilson, NC
Jones, Walter V., Jr.	JR			Va-8-6143	2618 Wade Ave., Raleigh, NC
Jones, Woodrow Wilson, Jr.	SR		2512 Clark	Te-2-4843	1018 N. Main St., Rutherfordton, NC
Jooste, Jasper V.	GR		805-D Daniels St.	Va-8-9620	Union of South Africa
Jordan, Charles Lee, III	SR		3414 Hillsboro	Te-3-4808	Covington St., Laurinburg, NC
Jordan, Horace M.	FR	4528	312 Owen	Te-4-9836	524 Patterson Ave., Kannapolis, NC
Jordan, Jack P.	SO	15386	412-D Bragaw	Te-4-9754	Box 277, Mt. Gilead, NC
Jordan, John D., III	SO		Rt. 1, Cary	Ho-7-2556	Rt. 2, Box 96, Clarkton, NC
Jordan, Leon Tysor, Jr.	GR		10 Bagwell Ave.	Te-2-1288	1000 W. Cabarrus St., Raleigh, NC
Jordan, Robert C.	FR	4627	116 Tucker	Te-2-9367	808 S. Wilmington Ave., Dunn, NC
Jordan, Rodrick M.	FR		1408 Hillsboro	Te-2-2262	Rt. 9, Box 473, Charlotte, NC
Jordan, Steven Boyd	SO	15116	309-A Bragaw	Te-4-9179	1701 Lansdale Dr., Charlotte, NC
Jordan, William Sanford, Jr.	JR			Te-3-6409	1922 Ridge Rd., Raleigh, NC
Jorgensen, David B.	SO	4442	151 Owen	Te-2-9473	1111 N. Duke St., Durham, NC
Joseph, Mayo Stella	GR		101 Oberlin Rd.		1250 Carlos Arrieta-Lima, Peru
Joslin, Arnold L.	JR			Te-2-1991	214 Lafayette Rd., Raleigh, NC
Joyce, Douglass R.	SR			Te-2-1013	216 Glascock St., Raleigh, NC
Joyner, David Wayne	FR	3384	318 Bagwell	Te-4-9151	617 Spring, Murfreesboro, NC
Joyner, Franklin C.	FR	4472	217 Owen	Te-2-9252	400 E. Powell, Clinton, NC
Joyner, Henry Lee, Jr.	FR	15119	309-D Bragaw	Te-4-9179	Rt. 1, Hobbsville, NC
Joyner, James H., III	JR		Q-221 Married Stu. Ho.		Box 883, Jacksonville Beach, Fla.
Jubenville, Alan	JR	15248	122-B Bragaw	Te-2-9180	619 W. Constance, Suffolk, Va.
Judd, Betty L.	GR			Te-2-0157	20 Bagwell Ave., Raleigh, NC
Judd, Joseph Thomas	GR			Te-2-0157	20 Bagwell Ave., Raleigh, NC
Judkins, Malcolm R.	SO	15365	402-C Bragaw	Te-4-9754	Box 6103, N. Augusta, SC
Juncker, Stephen N.	FR	4109	112 Alexander	Te-2-9257	499 Park Ave., Leonia, NJ
Junkers, Jochen K.	SP	4499	248 Owen	Te-2-9252	Truec d Ankava, Paris 16, France
Junnarker, Walin V.	GR	3216	240 Gold	Te-2-9263	81, Hindu Colony, Bombay 14, India
Justice, Clarence E.	FR	4465	208 Owen	Te-2-9410	Rt. 2, Box 143, Nebo, NC
Justice, Frank K.	SO	4230	135 Turlington	Te-4-9279	36 Melbourne Pl., Asheville, NC
Justice, John Alan	FR	4137	205 Alexander	Te-4-9746	Box 45, Icard, NC
Kahlbaum, William M., Jr.	SR			Va-8-2940	3213 Copley Dr., Raleigh, NC
Kaiser, Stanley V.	FR	4816	67 Tucker	Te-2-9186	2510 Fry St., Greensboro, NC
Kale, Charles Lester	SO	15132	315-D Bragaw	Te-4-9179	Rt. 1, Mt. Holly, NC
Kalin, George S.	JR		2712 Bedford Ave.		160 Gordonhurst Ave., Montclair, NJ
Kanipe, John T., Jr.	JR	15233	112-C Bragaw	Va-8-5772	Waddell St., Fair Bluff, NC
Kann, Donald Robert	FR	3309	109 Bagwell	Te-4-9219	2802 Manhattan Ave., Baltimore 15, MD
Kanoy, Gary Allen	FR	3319	119 Bagwell	Te-4-9219	Rt. 1, Thomasville, NC
Kappelman, Albert John, Jr.	GR		628 Chappell Dr.	Te-4-9583	1351-60th St., Des Moines 11, Iowa
Katzin, Gerald H.	GR	2334	2334 McHullan Cir.	Te-3-0947	Raleigh, NC
Kaw, Charlie	GR	5796	212 Brooks Ave.	Te-4-7707	105 20th St., Rangoon, Burma
Kaye, Lewis A.					1003 Brooks Ave., Raleigh, NC
Kearns, Kenneth D.	FR	4628	117 Tucker	Te-2-9388	532 Gatewood, High Point, NC
Keaton, John Austin	UN			Em-2-3262	205 Pearl St., Garner, NC
Keblawi, Fayez S.	GR	5363	12-A Daisy St.		c/o Said Kiblan, Maarad St., Beirut, Lebanon
Keech, Marvin Earl	SR	4282	320 Turlington	Te-2-9297	RFD, Pantego, NC
Keel, Ralph M.	SO	4231	136 Turlington	Te-4-9279	221 Baker Ave., Groton, Conn.
Keel, William H., II	SO			Te-4-0959	206 Ashe Ave., Raleigh, NC
Keen, James E.	FR	3704	104 Becton	Te-2-9256	1510 Evergreen Ave., Goldsboro, NC
Keener, Darrell Guy	FR	4684	212 Tucker	Te-2-9387	Box 144, Boger City, NC
Keeter, Jack E., Jr.	JR		2512 Clark	Te-2-4843	222 West 6th St., Rutherfordton, NC
Khoe, Thomas James	FR	4539	324 Owen	Te-4-9300	16 3rd Ave., Hawthorne, NJ
Keistler, James W., Jr.	SR	15085	219-B Bragaw	Va-8-5905	Rt. 1, Great Falls, SC
Keith, Thomas J.	SO	3054	318 Watauga	Te-2-9488	2100 N. Elm St., Lumberton, NC
Keller, Howard N.	JR	3805	3 Becton	Te-2-9261	1304 East 7th St., Charlotte 4, NC
Keller, James J.	FR		114 Longview Lake Dr.	Te-2-0231	51 Del Ave., Somers Point, NJ
Kelly, Arthur K.	SO	3802	334 Becton	Te-2-9372	1005 Harding Ave., Kinston, NC
Kelly, Donn Key	FR	4411	116 Owen	Te-2-9115	Rt. 2, Carthage, NC
Kelly, Dwight B.	SR		216 Grand Ave.	Te-2-1221	Brinkley Ave., Plymouth, NC
Kelly, James J.	SO		101 Oberlin Rd.		Rt. 9, Box 930, Charlotte, NC
Kelly, Lex Allen	FR	4668	161 Tucker	Te-2-9367	Rt. 8, Sanford, NC
Kemp, Ramey	FR	4495	241 Owen	Te-2-9252	Forest Lane, Mocksville, NC
Kelly, William W.	SR	5381	State Col. Stat.		624 W. End Blvd., Winston-Salem, NC
Kenan, James Allen	FR	4577	367 Owen	Te-4-9836	Rt. 7, Greensboro, NC
Kerley, Lyndell M.	FR	4638	127 Tucker	Te-2-9388	Box 6, Hiddenite, NC
Kernodle, Bruce H.	SO	3747	213 Becton	Te-2-9334	321 N. Maple St., Graham, NC
Kerr, Edmond C.	FR	4469	214 Owen	Te-2-9410	Rt. 6, Box 606-D, Charlotte, NC
Keshavarzi, Abbas					Ferdowsi, Shiraz, Iran
Kesler, Darryl M.	SO	15241	118-C Bragaw	Te-2-9180	Rt. 4, Box 286, Salisbury, NC
Kesler, Donald C.	FR	3536	204 Syme	Te-2-9150	917 Holmes St., Salisbury, NC
Kester, Harvey D.	FR	4765	335 Tucker	Te-2-9323	1115 E. Willow Brook Dr., Burlington

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Kester, Walter A.	FR	4570	359 Owen	Te-4-9836	209 Guilford Ave., High Point, NC
Ketner, Terry B.	FR	4529	314 Owen	Te-4-9300	Rt. 2, Box 412, China Grove, NC
Key, Hugh D.	JR			Te-2-1835	2702 Hillsboro, Raleigh, NC
Key, John Chase	JR		2405 Clark	Te-2-6543	603 Rosemont Ave., So. Charleston, W. Va.
Key, Mary E.	FR		2512 Vanderbilt Pl.	Te-4-8656	Rt. 1, Horse Shoe, NC
Keyes, Paul L.	JR		54 Dixie Dr.	Ext. 225	Black Hill Farm, Hanover, Va.
Kendall, North A.	JR	15379	410-A Bragaw	Te-4-9754	RFD 2, Wadesboro, NC
Kendall, Peter J.				Va-8-5940	2610 Kilgore St., Raleigh, NC
Kendrick, John A.	FR	3369	303 Bagwell	Te-4-9151	Rt. 1, Dallas, NC
Kendrick, William S.	FR	3362	230 Bagwell	Te-2-9131	Rt. 9, Box 20, Charlotte, NC
Kennedy, Donald C.	JR	15178	413-B Bragaw	Te-4-9757	RFD 2, New Bern, NC
Kennedy, Eugene W.	SO	15018	109-B Bragaw	Te-2-9129	Rt. 2, Hillsboro, NC
Kennedy, James M. III	SO			Te-2-5896	2405 Churchill Rd., Raleigh, NC
Kennedy, Robert Henry	JR			Va-8-5697	407 Glascock St., Raleigh, NC
Kennett, John F.	JR	4812	62 Tucker	Te-2-9186	1521 E. Geer St., Durham, NC
Kent, Richard E.	SO	15151	325-C Bragaw	Te-4-9179	68 Highland Blvd., Lynbrook, NY
Kenyon, Larry W.	FR	3608	12 Syme	Te-2-9421	Rt. 1, Box 190, Stadman, NC
Khesia, Priloke	GR				2400 Delta Dr., Raleigh, NC
Kibler, William E.	GR			Te-3-1020	4717 Western Blvd., Raleigh, NC
Kiang, Paul Ping-yiu			2726 Clark		91 Arsenal Ct., Wanchai, Hong Kong
Kiger, Bobby G.	GR	5566		Te-4-8227	Rt. 3, Winston-Salem, NC
Kilby, Bobby C.	SO	3618	22 Syme	Te-2-9421	Millers Creek, NC
Kile, Robert Karl	FR				2907 Warren Ave., Raleigh, NC
Kilpatrick, Andrew H.	FR	4115	118 Alexander	Te-2-9257	1201 E. 2nd St., Greenville, NC
Kilpatrick, Gail A.	UN			Te-3-5568	3200 Hillsboro, Raleigh, NC
Kilpatrick, Jerry B.	FR	4189	326 Alexander	Te-2-9349	29 Valley Park, Chapel Hill, NC
Kim, Dong Waa	JR	15272		Te-4-9123	107-200 Hyan Juh Dong, Seoul, Korea
Kimball, John Allen, Jr.	JR		7 Enterprise	Te-4-0435	Manson, NC
Kimbro, Ronald W.	JR	4795	43 Tucker	Te-2-9388	3660 Guess Rd., Durham, NC
Kimrey, Rives Brian, Jr.	JR		2719 Clark	Va-8-6546	693 Fielding Rd., Charlotte, NC
Kine, Ronald John	SR	4221	126 Owen	Te-2-9473	4717 Wisconsin Ave., Washington, DC
King, Carlisle R., Jr.	SO	4811	61 Tucker	Te-2-9186	Box 54, Knightdale, NC
King, Henry Frank III	JR	4401	101 Owen	Te-2-9115	Rt. 5, Box 359, Salisbury, NC
King, Jackie W.	FR	3795	327 Becton	Te-2-9372	Box 511, Graham, NC
King, James S.	FR	5566		Te-4-8227	Rt. 8, Box 176-A, Charlotte, NC
King, John Harold	SR	3037	301 Watauga	Te-2-9488	821 So. 2nd St., Smithfield, NC
King, Lee Ellis	SR	15273	208-C Bragaw	Te-4-9123	RFD 1, Jamestown, NC
King, Robert Sherrill	FR	4224	127 Turlington	Te-4-9279	2912 Harvard Dr., Wilmington, NC
King, Ronald Alvis	FR	4218	121 Turlington	Te-4-9279	Rt. 1, Box 291, Seagrove, NC
King, Stanley Ross	SR	4773	345 Tucker	Te-2-9388	Rt. 3, Littleton, NC
King, Truman Lewis, Jr.	FR			Te-2-6267	N-18 Cameron Ct. Apts., Raleigh, NC
King, William J.	SR	3547	215 Syme	Te-2-9150	4929 Pine St., Wilmington, NC
Kinlaw, James M.			107A Oberlin Rd.		1119 E. 5th St., Lumberton, NC
Kinloch, Bohun B.	JR		1322 Williamson Dr.	Te-2-4000	42 Church St., Charleston, SC
Kirby, Jack M.	JR			Te-3-2567	1939 Clark Ave., Raleigh, NC
Kirby, Rosa Deane					2816 Everett St., Raleigh, NC
Kirk, William F.	JR		L-23 Married Stu. Ho.		East Bend, NC
Kirkley, John M.	SR		115 Woodburn Rd.	Te-2-2933	1542 Cliffwood Pl., Charlotte, NC
Kirkman, George V.	FR	3046	310 Watauga	Te-2-9488	1008 Cedar St., Lumberton, NC
Kirkman, James R., Jr.	FR	4683	210 Tucker	Te-2-9387	4813 Tuckasee, Charlotte, NC
Kirkman, Raymond Lee, Jr.	SO	4432	138 Owen	Te-2-9115	1030 Martin St., Winston-Salem, NC
Kirkpatrick, Ann				Te-4-4427	315 Mervin Rd., Raleigh, NC
Kirkpatrick, Larry E.	SO	4263	283 Turlington	Te-2-9297	RFD 2, Mebane, NC
Kiser, Albert R.	FR	5566		Te-4-8227	1404 W. 1st St., Winston-Salem, NC
Kiser, Clyde L., Jr.	FR	3575	311 Syme	Te-2-9222	Rt. 4, Asheboro, NC
Kiser, George L., Jr.	FR	4184	331 Alexander	Te-2-9349	307 Bost St., Kannapolis, NC
Kiser, Jack L.	JR	15397	418-B Bragaw	Te-4-9754	Rt., Sherrill's Ford, NC
Kistler, Richard C.	FR	15114	307-C Bragaw	Va-8-5927	724 Grandin Rd., Charlotte, NC
Kitchin, James R.	FR	4740	304 Tucker	Te-2-9323	N. Main St., Scotland Neck, NC
Kitchin, Lawton W., Jr.	FR	3018	118 Watauga	Te-2-9447	Box 85, Maxton, NC
Kitchen, William H.	SO			Te-2-3488	2913 Bardwell Rd., Raleigh, NC
Kittrell, George P.	SO	15119	309-D Bragaw	Te-4-9179	Corapeake, NC
Kivett, Dohn R.	JR	4802	52 Tucker	Te-2-9186	403 Kirkland St., Greensboro, NC
Kivett, William D.	JR			Te-4-7374	1 Ashe Ave., Raleigh, NC
Kjoenes, Nils Ivar	SO	5794	2316 Hillsboro	Te-4-5452	236 Melrose St., Winston-Salem, NC
Klatt, Fred W.	SO			Ho-7-4552	208 Heater Dr., Cary, NC
Klekowski, Edward J.	JR	4523	306 Owen	Te-4-9300	50 N. Harrison, Indianapolis, Ind.
Klingerman, James Lewis	FR		201 Murphy Dr., Cary		11 W. Oakdale, Jeddo, Pa.
Klipfel, Thomas R.	SO	15395	416-E Bragaw	Te-4-9754	912 Kenmore St., Asheboro, NC
Klutz, James E.	SO		1720 Hillsboro	Te-4-0451	520 S. Fulton, Salisbury, NC
Klutz, John David	FR	3819	17 Becton	Te-2-9261	Box 16, RR St., Granite Quarry, NC
Klutz, William C.	SO	4261	235 Turlington	Te-2-9297	Rt. 8, Box 625, Salisbury, NC
Klutz, Larry E.	SR	15056	203-D Bragaw	Te-2-9185	Queen St., Boone, NC
Klutz, Marvin G.			1508 Frank St.		1304-12th St., N.E., Hickory, NC
Knappenberger, Herbert A.	GR			Te-4-5928	215 Jones Franklin Rd., Raleigh, NC
Kneeburg, Charles E., Jr.	JR	112	Rt. 1, Cary	Va-8-4990	Rt. 1, Cary, NC
Knight, Thomas D.	SO	3532	132 Syme	Te-2-9288	Rt. 1, Stokesdale, NC
Knight, William B., Jr.	JR	15362	326-D Bragaw	Te-4-9179	324-7th St., N.W., Hickory, NC
Knight, William F.	FR	4341	212 Alexander	Te-4-9746	Rt. 1, Kenly, NC
Knippenberg, Charles S.	FR	3816	14 Becton	Te-2-9261	1023 Coddington, Charlotte 7, NC
Knott, Charles F.	FR	3749	215 Becton	Te-2-9334	1000 W. Forest Hills Blvd., Durham, NC
Knott, Freddie Nels					
Knott, Gerald H.	SO			Te-2-1735	1908 Carroll Dr., Raleigh, NC
Knott, Larry W.	SO	4210	113 Turlington	Te-4-9279	113 Cecil Dr., Winston-Salem, NC
Knott, Marsh W., Jr.	FR	4781	354 Tucker	Te-2-9323	141 Zebulon Rd., Wendell, NC
Knovles, Samuel G.	JR		103 Chamberlain St.	Te-2-2705	208 21st Ave., N.W., Hickory, NC
Knox, James H.	SO	15247	112-A Bragaw	Te-2-9180	Carolina Beach, NC
Knox, William Edward	JR	15332	312-C Bragaw	Te-4-9253	129 Clayton St., Winston-Salem, NC
Koburger, John A.	GR		3112 Douglass St.	Va-8-6789	68-11 Ingram St., Forest Hills, L.I. 75, NY

NAME	YR	PR	COLLEGE ADDRESS	PRV PHONE	WALD ADDRESS
Muehler, Robert M.	FR	478	100 Owen	Te-2-9323	Box 691, Stanley, NC
Mut, David	SO	100	100 Owen	Te-2-9323	Box 691, Stanley, NC
Nekoska, Michael R.	FR	100	100 Owen	Te-2-9323	Box 691, Stanley, NC
Nekoska, William R.	SR	100	130 Hawthorne Rd.,	Va-8-3347	502 C St., N. Wilkesboro, NC
Nesbiter, Thomas R.	SO	100	120 Owen	Te-2-9323	Box 691, Stanley, NC
Nesbiter, Eugene J., Jr.	SR	100	120 Owen	Te-2-9323	Box 691, Stanley, NC
Nesbiter, Lucy H., Jr.	SO	100	120 Owen	Te-2-9323	Box 691, Stanley, NC
Nesbiter, Robert F., Jr.	SO	100	120 Owen	Te-2-9323	Box 691, Stanley, NC
Nesbiter, Alice	SO	100	120 Owen	Te-2-9323	Box 691, Stanley, NC
Nesbiter, Anthony F.	SR	100	120 Owen	Te-4-9300	Box 691, Stanley, NC
Nesbiter, Stephen S.	SR	100	120 Owen	Te-4-9300	Box 691, Stanley, NC
Nesbiter, Michael R.	SR	100	1424 Seales St.	Va-8-6691	730 Maple St., Bridgeville, Pa.
Nesbiter, Ronald J.	SR	100	126 Owen	Te-2-9437	128 Applewood Rd., Charlotte 7, NC
Nesbiter, Theodore J.	SR	100	2160 Mayview Rd.	Va-8-2645	18 Holden St., Clifton, NJ
Nesbiter, Gabriel	SO	100	126 Owen	Te-2-9186	250-11th St., Conway, Pa.
Nesbiter, Gerald J.	SO	100	126 Owen	Te-4-9115	7001 Sardis St., Charlotte, NC
Nesbiter, Jeffery Allen	SO	100	2512 Clark	Te-2-1843	Hersl 80, Haifa, Israel
Nesbiter, Louis R.	SR	100	217 Bagwell	Te-2-1843	137 Phillips Ave., Trenton 8, NJ
Nesbiter, Kerr J.	FR	3502	102 Syme	Te-2-9288	2503 Woodland Ave., So. Charleston, W.
Nesbiter, Gerald W.	SR	100	102 Syme	Te-2-5597	146 Maple St., Muse, Pa.
Nesbiter, William P.	SO	4151	223 Alexander	Te-2-5597	228 N. Monroe, Salisbury, NC
Nesbiter, Arnold V.	SR	100	109 N. Boylan Ave.	Va-8-2057	1916 Sunset Dr., Raleigh, NC
Nesbiter, Dennis R.	SR	100	422-B Bragaw	Te-4-9454	Box 27, Moon Run, Pa.
Nesbiter, Gary L.	FR	4217	120 Turlington	Te-4-9279	210 6th Ave. S.E., Calgary, Alberta, Can.
Nesbiter, Gary Lee	FR	100	120 Turlington	Te-2-9387	Box 311, Catersville, Pa.
Nesbiter, William F.	SO	100	120 Turlington	Te-2-9297	1148 Seneca Pl., Charlotte 9, NC
Nesbiter, Walter J.	SR	15405	422-B Bragaw	Te-4-9754	1148 Seneca Pl., Charlotte 9, NC
Nesbiter, Robert Otto	GR	100	112 Williams Hall	Ext 222	115 Valley View Ave., Troy, NY
Nesbiter, Rudolph G., Jr.	FR	5665	2514 Clark	Te-3-4522	730 McCoy Rd., McKees Rocks, Pa.
Nesbiter, Walter M.	FR	100	2 Logan Ct.	Te-2-3544	3221 Willow Oak Rd., Charlotte, NC
Nesbiter, Raj	UN	100	2400 Delta Dr.	Te-4-9537	20 Bagwell Ave., Raleigh, NC
Nesbiter, Surinder	SR	5781	2400 Delta Dr.	Te-4-9537	33 Kunj, Etawah (U.P.) India
Nesbiter, Virgil G.	SR	100	2402 Hillsboro	Te-4-9123	Raleigh, NC
Nesbiter, Albert Tien-Mou	SR	15292	218-C Bragaw	Te-4-9123	428 Wayne Dr., Raleigh, NC
Nesbiter, James M.	SR	100	168 Furches St.	Te-4-6552	43-42 Golden St., Flushing, NY
Nesbiter, William G.	SR	100	128 Syme	Te-2-9288	765 Poindexter Dr., Charlotte, NC
Nesbiter, William R.	SO	3528	128 Syme	Te-4-9584	Rt. 1, Winston-Salem, NC
Nesbiter, David Lee	FR	100	2512 Clark	Te-2-1843	532 Jefferson Dr., Charlotte 7, NC
Nesbiter, Vello A.	SO	100	2512 Clark	Te-2-1843	1022 Nichols Dr., Raleigh, NC
Nesbiter, Gerald F.	SR	100	A-21 Married Stu. Ho.	Va-8-5925	Rt. 2, Box 351, Cherryville, NC
Nesbiter, Walter J., Jr.	SR	3256	208 Welch	Te-2-9119	A-21 Married Stu. Ho., State Col. Stat.
Nesbiter, Robert A.	PROF	100	4-214 Married Stu. Ho.	Te-2-9119	Box 85, Fallston, NC
Nesbiter, John E.	SR	100	947 Peace Terr.	Va-8-4148	3410 Polk, Toledo, Ohio
Nesbiter, Ernest M.	SR	100	121 Syme	Va-8-4148	Box 36, Banner Elk, NC
Nesbiter, Thomas H.	SO	3521	255 Tucker	Te-2-9288	1800 Wilshire Ave., Raleigh, NC
Nesbiter, Robert B., II	FR	4722	304 Berry	Te-2-9387	Rt. 1, Connely Springs, NC
Nesbiter, David A.	FR	4324	102 Gold	Te-2-9350	Rt. 5, Box 927, Charlotte, NC
Nesbiter, James B., Jr.	SR	3202	165 Tucker	Te-2-9263	164 Ward St., Watertown, NY
Nesbiter, Julian K., Jr.	FR	4672	110-B Bragaw	Te-2-9388	565 Overlook Ave., Leaksville, NC
Nesbiter, Russell D.	SR	15228	243 Tucker	Te-2-9180	308 N. Park Dr., Salisbury, NC
Nesbiter, Donald G.	FR	4712	303 Owen	Te-2-9387	75 Blue Ridge Ave., W. Asheville, NC
Nesbiter, Robert L., Jr.	FR	4520	54 Dixie Ave.	Te-4-9300	1615 E. Maple St., Goldsboro, NC
Nesbiter, Roger D.	SR	4161	233 Alexander	Te-4-9746	Rt. 2, Box 62-A, Andrews, SC
Nesbiter, Charles S.	FR	100	2719 Avent Ferry Rd.	Te-3-0758	1604 Louder St., Albemarle, NC
Nesbiter, Clay T., Jr.	FR	4153	224 Alexander	Te-4-9746	Rt. 3, High Point, NC
Nesbiter, Shannon T.	FR	4456	165 Owen	Te-2-9115	905 West Ridge Rd., Greensboro, NC
Nesbiter, Timothy A.	GR	100	308 Horne St.	Te-2-7050	RFD 1, Brown Summit, NC
Nesbiter, Charles M.	SO	15211	102-A Bragaw	Te-2-9130	Landrum, SC
Nesbiter, Charles H.	PROF	100	2015 Bernettler Dr.	Va-8-2282	Rt. 2, Box 207, Elm City, NC
Nesbiter, George B.	FR	4804	54 Tucker	Te-2-9186	1504 Highland Dr., Wilson, NC
Nesbiter, Gerald L.	FR	7438	Station B, Raleigh	Te-2-9186	408 Clemmonsville Rd. S.E., Winston-Salem, NC
Nesbiter, Bobby N.	FR	3546	214 Syme	Te-2-9150	Rt. 3, Axton, Va.
Nesbiter, Jordan T.	SO	100	2922 O'Berry St.	Va-8-9802	2307 Princess St., Wilmington, NC
Nesbiter, William H., III	FR	4250	222 Turlington	Te-2-9397	Rt. 1, Harrisburg, Pa.
Nesbiter, Robert L.	SO	100	202 Gold	Te-2-9263	1171 Andrews Ave., Lakewood 7, Ohio
Nesbiter, Carl L.	GR	100	116-B Bragaw	Te-2-9180	Rt. 1, Dover, NC
Nesbiter, Francis D.	SO	15236	36 Dixie Dr.	Te-3-9165	2603 1/2 Vanderbilt Ave., Raleigh, NC
Nesbiter, James D.	GR	100	36 Dixie Dr.	Te-3-4513	640 Biltmore Ave., Asheville, NC
Nesbiter, James Henry	SR	100	315-C Bragaw	Te-4-9179	2603 1/2 Vanderbilt Ave., Raleigh, NC
Nesbiter, John Donald	SR	15131	417-B Bragaw	Te-4-9757	Box 311, Mt. Gilead, NC
Nesbiter, Lucille U.	SO	15187	5 Berry	Te-2-9350	Box 536, Butler, NC
Nesbiter, Stephen	FR	4338	202 Ashe Ave.	Te-4-9757	807 Lee St., Asheville, NC
Nesbiter, Thomas W.	SR	100	1720 Hillsboro	Te-4-0451	73 Hancock Pl., Thornwood, NY
Nesbiter, William J., Jr.	SR	100	322-B Bragaw	Te-4-9253	RFD 1, Smithfield, NC
Nesbiter, William P.	SR	15352	105-C Bragaw	Va-8-4779	409 Rose St., Smithfield, NC
Nesbiter, Jerry P.	SR	15011	359 Turlington	Te-2-9129	2018 Weeks Dr., Raleigh, NC
Nesbiter, Brian C.	SR	4567	303 Tucker	Te-2-9386	52 Elizabeth St., Asheville, NC
Nesbiter, Thelbert E.	FR	15981	1209 Chaney Rd.	Te-4-9754	RFD 2, Grifton, NC
Nesbiter, William H.	SR	5382	110-C Bragaw	Te-4-9754	Box 176, Princeton, NC
Nesbiter, Langston, Bryant C., Jr.	GR	15221	State Col. Stat.	Te-2-9180	313 S. Main St., Reaford, NC
Nesbiter, Edward E.	FR	4381	308 Bagwell	Te-4-9151	1214 Moore Dr., Raleigh, NC
Nesbiter, Edward E.	FR	4298	303 Tucker	Te-2-9323	2214 Chestnut St., Wilson, NC
Nesbiter, Edward E.	FR	4736	1209 Chaney Rd.	Te-3-7804	2214 Chestnut St., Wilmington, NC
Nesbiter, Harvey Glenn	FR	3503	101 Syme	Te-2-9288	Box 710, Warsaw, NC
Nesbiter, Richard C.	FR	3503	101 Syme	Te-2-9288	Chinquapin, NC

NAME	FR	BOX	COLLEGE ADDRESS	ADDRESS	NAME	ADDRESS
Larimore, David Lee	FR		1718 Hillsboro	1718 Hillsboro	1718 Hillsboro	Winston-Salem, NC
Larson, Robert F.	SO	4845	7 Berry	7 Berry	7 Berry	Washington, Pa.
Lasater, Robert B.	FR		504 Mulpepper	504 Mulpepper	504 Mulpepper	2218 Garden Place, Raleigh, NC
Laschinsky, Jack	GR					2218 Garden Place, Raleigh, NC
Laski, George	SO					2218 Garden Place, Raleigh, NC
Lasater, Robert B.	SR		104 Logan Ct.	104 Logan Ct.	104 Logan Ct.	457 N.E. 950, Miami, Fla.
Lasater, Albert B.	FR					457 N.E. 950, Miami, Fla.
Lasater, Phillip B.	FR	7827	5 Becton	5 Becton	5 Becton	457 N.E. 950, Miami, Fla.
Lasater, Ray R.	GR	110	110	110	110	457 N.E. 950, Miami, Fla.
Lasater, William J., Jr.	SO	5558	5558	5558	5558	457 N.E. 950, Miami, Fla.
Lasater, William J.	ME	5545	5545	5545	5545	457 N.E. 950, Miami, Fla.
Lasater, Arthur Lee	JR	7667	Raleigh	Raleigh	Raleigh	457 N.E. 950, Miami, Fla.
Lasater, James L.	FR	2867	302 Durham	302 Durham	302 Durham	457 N.E. 950, Miami, Fla.
Lasater, Steve B.	UN					457 N.E. 950, Miami, Fla.
Lasater, John B.	FR	3507	107 Syne	107 Syne	107 Syne	457 N.E. 950, Miami, Fla.
Lasater, Mac A.	FR					457 N.E. 950, Miami, Fla.
Lasater, Charles E.	FR		1718 Hillsboro	1718 Hillsboro	1718 Hillsboro	457 N.E. 950, Miami, Fla.
Lasater, Bernard J.	SR	15341	15341	15341	15341	457 N.E. 950, Miami, Fla.
Lasater, Kenneth C.	GR					457 N.E. 950, Miami, Fla.
Lasaterhouse, Alvis F., Jr.	FR	3584	320 Syne	320 Syne	320 Syne	457 N.E. 950, Miami, Fla.
Lasaterhouse, Gerald F.	JR	15185	15185	15185	15185	457 N.E. 950, Miami, Fla.
Lasater, Kermit O.	UN					457 N.E. 950, Miami, Fla.
Lasater, Jon H.	JR	3207	3207	3207	3207	457 N.E. 950, Miami, Fla.
Lasater, James F.	SO					457 N.E. 950, Miami, Fla.
Law, Sidney E.	FR	15073	213-A Bragaw	213-A Bragaw	213-A Bragaw	457 N.E. 950, Miami, Fla.
Lawrence, Donald G.	FR					457 N.E. 950, Miami, Fla.
Lawrence, James R.	FR	3356	224 Bagwell	224 Bagwell	224 Bagwell	457 N.E. 950, Miami, Fla.
Lawrence, James Robert, Jr.	FR		611 N. Ellis Ave.	611 N. Ellis Ave.	611 N. Ellis Ave.	457 N.E. 950, Miami, Fla.
Lawrence, William T.	FR	4751	320 Tucker	320 Tucker	320 Tucker	457 N.E. 950, Miami, Fla.
Lawson, James B.	JR	4335	2 Berry	2 Berry	2 Berry	457 N.E. 950, Miami, Fla.
Lawson, James Gray	FR	4505	255 Owen	255 Owen	255 Owen	457 N.E. 950, Miami, Fla.
Lawson, James Willis	FR	4367	22 Stadium	22 Stadium	22 Stadium	457 N.E. 950, Miami, Fla.
Lawson, Richard E.	JR					457 N.E. 950, Miami, Fla.
Lawton, Lawrence W.	JR		2512 Clark	2512 Clark	2512 Clark	457 N.E. 950, Miami, Fla.
Lea, Michael D.	JR	3611	15 Syne	15 Syne	15 Syne	457 N.E. 950, Miami, Fla.
Leary, Jesse H.	SO	3818	16 Becton	16 Becton	16 Becton	457 N.E. 950, Miami, Fla.
Leary, Leslie C.	JR	4618	103 Tucker	103 Tucker	103 Tucker	457 N.E. 950, Miami, Fla.
Leary, Stanley M.	JR					457 N.E. 950, Miami, Fla.
Leath, Bob W.	JR					457 N.E. 950, Miami, Fla.
Leatherwood, James M.	JR	15410	424-C Bragaw	424-C Bragaw	424-C Bragaw	457 N.E. 950, Miami, Fla.
Leatherwood, James Murray	GR		111 Polk Hall	111 Polk Hall	111 Polk Hall	457 N.E. 950, Miami, Fla.
Leavel, Jack P.	FR		Q-25 Married Stu. Ho.	Q-25 Married Stu. Ho.	Q-25 Married Stu. Ho.	457 N.E. 950, Miami, Fla.
Leavitt, Peter D.	JR		2101 Glenwood Ave.	2101 Glenwood Ave.	2101 Glenwood Ave.	457 N.E. 950, Miami, Fla.
LeBlanc, Diddie J.	JR	5656	2512 Clark	2512 Clark	2512 Clark	457 N.E. 950, Miami, Fla.
Leibenson, Robert J.	FR	4667	160 Tucker	160 Tucker	160 Tucker	457 N.E. 950, Miami, Fla.
Lee, Albert G.	FR	4763	322 Tucker	322 Tucker	322 Tucker	457 N.E. 950, Miami, Fla.
Lee, Benjamin Glen	SR	4578	41 Owen	41 Owen	41 Owen	457 N.E. 950, Miami, Fla.
Lee, Barry B.	FR		54 Dixie Tr.	54 Dixie Tr.	54 Dixie Tr.	457 N.E. 950, Miami, Fla.
Lee, Charles E.	FR					457 N.E. 950, Miami, Fla.
Lee, Donald Ross	SR		125 Cox Ave.	125 Cox Ave.	125 Cox Ave.	457 N.E. 950, Miami, Fla.
Lee, Hong Suk	FR	5768	480 Williams Hall	480 Williams Hall	480 Williams Hall	457 N.E. 950, Miami, Fla.
Lee, James R.	FR	4627	116 Tucker	116 Tucker	116 Tucker	457 N.E. 950, Miami, Fla.
Lee, Jerry St.	SO	4509	114 Owen	114 Owen	114 Owen	457 N.E. 950, Miami, Fla.
Lee, Jesse B.	SO	4517	267 Owen	267 Owen	267 Owen	457 N.E. 950, Miami, Fla.
Lee, Kent E.	SR					457 N.E. 950, Miami, Fla.
Lee, Michael C.	JR	4553	339 Owen	339 Owen	339 Owen	457 N.E. 950, Miami, Fla.

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Leonard, James C., III	SR	15064	207-D Bragaw	Te-29185	3412 S. Main St., Winston-Salem, NC
Leonard, Percy D., Jr.	FR	4643	132 Tucker	Te-2-9367	504 Northridge St., Greensboro, NC
Leonard, Robert L., Jr.	JR				214 Williams St., Lexington, NC
Leonard, Robert W.	SO	15160	403-D Bragaw	Te-4-9179	250 Pine Valley, Winston-Salem, NC
Leonard, Virgil C., Jr.	FR	4622	109 Tucker	Te-2-9367	Rt. 4, Lexington, NC
Leonhardt, Carson O.	JR	243	Butner, NC	Yu-5-6856	Rt. 4, Box 911, Morganton, NC
Leshe, Charles M.	GR			Te-4-6131	3001 Wade Ave., Raleigh, NC
Leslie, Phillip B.	SO	4252	215 Tucker	Te-2-9387	Fairfield Cir., Dunn, NC
Leslie, Peter A.	SO	15175	411-C Bragaw	Va-8-6753	506 Dutchman Ave., Mt. Holly, NC
Lester, Anne J.	SR			Va-8-9651	RFD 5, Wilder's Grove, Raleigh, NC
Lester, Bill S.	SR			Va-8-9651	RFD 5, Raleigh, NC
Lester, Flora C.	JR		1618 Hillsboro	Te-3-4006	Fine Hall, NC
Leverett, James F.	JR		1010 Gorman St.		119 Judd St., Fayetteville, NC
Levings, George E.					109 N. Boylan Ave., Raleigh, NC
Lewis, Charles L.	FR	4429	135 Owen	Te-2-9115	1700 E. 5th St., P.O. Box 287, Lumbert
Lewis, Hebert G.	FR	4787	360 Tucker	Te-2-9323	2017 Eastwood Ave., Kingsport, Tenn.
Lewis, James A.	FR	4641	State Col. Stat.		Burnsville, NC
Lewis, James Palmer	SO	3328	128 Bagwell	Te-4-9219	Box 234, Troutman, NC
Lewis, James S.	SO		5 Maiden La.	Te-2-9531	1507 E. Beech St., Goldsboro, NC
Lewis, James Thomas	SR			Ho-7-9452	116 Pleasant Ave., Cary, NC
Lewis, Joseph Isaac	SO		Col. View Tr. Pk.		Rt. 1, Middlesex, NC
Lewis, Kenneth M.	SR	4768	338 Tucker	Te-2-9323	RFD 2, Box 51, Fayetteville, NC
Lewis, Luther V.	SO	15396	418-A Bragaw	Te-4-9754	Rt. 2, Box 217, Union Mills, NC
Lewis, Marcus F.	FR	4308	201 Berry	Te-2-9363	Clinton, Roseboro, NC
Lewis, Reginald F., Jr.	FR	3130	304 Fourth	Te-2-9159	Box 283, Newport, NC
Lewis, Robert Dean	GR		Rt. 1, Cary, NC		
Lewis, Russell Jay	FR	3525	1405 Beaver Dam	Te-4-0008	Index, Ky.
Lewis, William E.	FR	4664	125 Syme	Te-2-9288	RFD 6, Box 186, Greenville, NC
Lewis, William H., Jr.	FR		157 Tucker	Te-2-9388	802 Hudson Ave., Durham, NC
Liguori, Robert R.	GR		3408 Sioux Dr.	Te-4-4893	So. End Rd., Southington, Conn.
Liles, Billy R.	JR	3701	A-26 Married Stu. Ho.	Va-8-6574	Box 2, Knightdale, NC
Liles, Henry D.	JR		101 Becton	Te-2-9256	Box 183, Lilesville, NC
Liles, Richard T.	SR		4800 Western Blvd.	Te-3-3994	Rt. 4, Zebulon, NC
Lin, James C. H.			Gardner Hall		1-1 Lane 82, Fu-Tuen St. Sung Shan, Tai
Lind, Thomas Carl	GR		125 Cox Ave.	Te-4-8152	State St., Marion, NC
Lindberg, Charles G.	SR		3102 Raymond St.		Raleigh, NC
Linder, Robert D.	SR		106 Montgomery St.	Va-8-6502	716 Ryan St., Salisbury, NC
Lindsey, Anthony G.	JR		132 Woodbury Rd.		503 Stewart Ave., Clinton, NC
Lindsey, Carroll	FR	4813	63 Tucker	Te-2-9186	Smith Chapel Rd., Mt. Olive, NC
Lindsey, Donald S.	FR	15342	316-D Bragaw	Te-4-9253	Rt. 3, Mt. Olive, NC
Lindsey, Ronald G.	JR	15342	316-D Bragaw	Te-4-9253	Rt. 3, Mt. Olive, NC
Lindsey, Alfred	JR	2793	325 Becton	Te-2-9372	1110 S. Park Ave., Haddon Hts., NJ
Lindsey, Melissa	JR			Va-8-3671	Raleigh Apts. F-4, Raleigh, NC
Lindtack, Giles S.	FR				400 Lawndale St., Garner, NC
Lineberger, Earl L.	SR	15348	320-B Bragaw	Te-4-9253	Rt. 1, Bessemer City, NC
Lineberger, James W.	FR	4736	303 Tucker	Te-2-9323	Rt. 2, Gastonia, NC
Lineberger, James Worth, Jr.	SR		2616 Erwin Rd.	8-2273	1306 National Ave., New Bern, NC
Lineberger, Miles Erwin	JR		Q-111 Married Stu. Ho.		Rt. 2, Dallas, NC
Lineberger, William F.					2304 N. Duke St., Durham, NC
Lineberry, Logan W., III	SO	15087	219-D Bragaw	Va-8-5905	Randleman, NC
Liner, Gaines H.	FR	4773	345 Tucker	Te-2-9323	Rt. 2, Hillsboro, NC
Lingle, Douglas E.	JR		2347 Bernard St.	Va-8-5858	Box 26, Faith, NC
Lingle, William M.	FR	4236	205 Turlington	Te-2-9297	Box 1, Faith, NC
Lingman, Richard B.			1906½ Hillsboro		Rt. 2, Box 43, New Bern, NC
Link, John B.	JR		8 Farnell La.	Te-2-1755	305 Elm St., Salisbury, NC
Linville, Wayne H.	FR	3771	303 Becton	Te-2-9372	2908 Bon Air Ave., Winston-Salem, NC
Litchfield, Terry D.	SO	15277	210-C Bragaw	Te-4-9423	
Little, Brian E.	FR	3575	311 Syme	Te-2-9222	706 Rountree St., Wilson, NC
Little, Charles H.	SR		2718 Clark	Te-2-6451	Rt.1, Kenly, NC
Little, Charles S., Jr.	FR	7590	Sta. B, Raleigh	Te-2-7581	Gen. Del., Oakboro, NC
Little, Daniel R.	FR	4209	112, Turlington	Te-4-9279	RFD 2, West Jefferson, NC
Little, Edgar L.	JR		0 Logan Ct.		1512 Glendale, Durham, NC
Little, Herbert M.	JR	5566			6016 24th Ave. N. St., Petersburg, Fla
Little, James L.	FR			Te-4-8227	513 Lambert, Clayton, NC
Little, Jerry L.	SR		2804 Hillsboro		301 King St., Monroe, NC
Little, John Chester	SO	15256	126-B Bragaw	Te-2-9180	Rt. 1, Winterville, NC
Littlejohn, Michael A.	JR	15314	304-A Bragaw	Te-4-9253	431 Kudd St., Burlington, NC
Liu, David Jiang	GR	3234	310 Gold	Te-2-9263	
Liu, I Nan			Dept. Peyc.		84 Kwang Ming Rd., Hsin-Tien, Taipei, Taiwan, China
Livengood, Charles D.	FR			Va-8-3549	1601 Ridge Rd., Raleigh, NC
Liverman, Fred Lee	JR	4565	State Col. Stat.	Te-4-9300	Rt. 1, Box 92, Aulander, NC
Livesay, Holt M.	FR	4226	129 Turlington	Te-4-9279	Rt. 2, Box 19, Franklin, Va.
Livington, Donald C.	SR		116 Hawthorne Rd.	Te-2-8406	Box 295, Bryson City, NC
Lizarraga, Hector J.			356 Williams Hall		Linares 1030, Lapaz, Bolivia
Lloyd, Carl J.	JR	116	Buies Creek	3155	Buies Creek, NC
Lloyd, Clarence R.	SO	15139	319-C Bragaw	Te-4-3288	1507 Evergreen, Durham, NC
Lloyd, James G.	JR	3538	206 Syme	Te-2-9150	809 Leon, Durham, NC
Loew, Sherman Paul	SO	3725	125 Becton	Te-2-9256	Rt. 1, Dunn, NC
Lockem, Bruce L.	SO	15333	312-D Bragaw	Te-4-9253	249 Bell, Chagrin Falls, Ohio
Locklear, Proctor, Jr.	SR	3051	115 Watuga	Te-2-9488	Rt. 1, Box 36, Shamron, NC
Lockwood, James N.	SR		3207 Herriman Ave.		5209 Holston Dr., Knoxville, Tenn.
Loftin, Guy S.	FR	4762	331 Tucker	Te-4-9739	408 Council St., Thomasville, NC
Loftin, William W., III	JR			Te-3-3301	2804 Wayland Dr., Raleigh, NC
Loggins, Chester D., Jr.	FR	4796	45 Tucker	Te-2-9186	4493 Fise Ave., Winston-Salem, NC
Logue, Gaynell Paul	SO	3316	16 Bagwell	Te-4-9219	4514 Park Rd., Charlotte, NC
Lohr, David L.	SO	15908	225-A Bragaw	Te-4-0435	314 N. Aspen St., Lincolnton, NC
Lombard, Charles K.	GR		113 Alumni Bldg.		1092 Nichols Dr., Raleigh, NC
Long, Bobby Melvin	JR		702½ W. Morgan St.		Shellotte, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Long, Charles E.	SR		2204 Garden Pl.	Va-8-6552	Box 1316, Concord, NC
Long, James B.	SO		2405 Clark	Te-2-6543	1201 W. Davis St., Burlington, NC
Long, James S.	FR	4197	337 Alexander	Te-2-9349	4311 Woodlark Ln., Charlotte, NC
Long, Jerry Eugene	FR	3596	332 Syme	Te-2-9222	1403 Welborn, High Point, NC
Long, John Archie	FR	4702	231 Tucker	Te-2-9387	Box 295, Haw River, NC
Long, Matthew B., Jr.	FR			Te-3-7498	3000 Medlin Dr., Raleigh, NC
Long, Michael H.	FR	4285	323 Turlington	Te-2-9192	131 E. Stewart Ave., Mooresville, NC
Long, Paul F.	GR		2625 Newbold Rd.	Te-2-4919	No. 1 Bestown Dr., Bessemer City, NC
Long, Richard D.	FR	3788	320 Becton	Te-2-9372	98 Highland Rd., Williamsville, NY
Long, Robert Edward	SO	15269	206-A Bragaw	Te-4-7547	201 Fritchard, Elizabeth City, NC
Long, Robert Wilburn	SO				519 Barksdale Dr., Raleigh, NC
Long, Ronald H.	SO	3302	102 Bagwell	Te-4-9219	706 Laurel La., Gastonia, NC
Long, Walter E.	FR	4187	324 Alexander	Te-2-9349	225 W. Glendale, Mt. Holly, NC
Long, William B.	SR	15318	306-A Bragaw	Te-4-9253	609 E 4th St., Gastonia, NC
Long, William Earl	JR	3263	303 Welch	Te-2-9119	Main St., Roxboro, NC
Lonon, Carl Brian	GR	4296	337 Turlington	Te-2-9192	Rt. 1, Marion, NC
Lopp, Daniel F.	SO	15344	318-B Bragaw	Te-4-9253	306 Westover Pl., Lexington, NC
Loppacker, Everett P., Jr.	GR			Te-2-6625	2425 Greenway Ave., Raleigh, NC
Lore, James David	JR		2304 Hillsboro	Te-4-6930	911 South St., Gastonia, NC
Lorch, Kendall G.	SO			Te-2-6357	507 Beverly Dr., Raleigh, NC
Lose, David O.	SO		2512 Clark	Te-2-843	Anchorage, Ky.
Love, Ira Wayne	SO	15140	319-D Bragaw	Te-4-3288	1018 West C St., Kannapolis, NC
Love, Jimmy Oscar	SR	15125	313-B Bragaw	Te-4-9179	725 S. Union St., Concord, NC
Love, Lexie Lewis	FR	3572	308 Syme	Te-2-9222	RFD 1, Willow Springs, NC
Love, Ray N.	JR	341-A	Rt. 1, Cary	Ho-79579	23 Jackson Terr., Concord, NC
Lovelace, Samuel D.	FR			Te-2-9569	1104 Shepherd St., Raleigh, NC
Lovelace, William R.	FR	3771	303 Becton	Te-2-9372	2705 Stokes Ave., Winston-Salem, NC
Low, Parks Martin, Jr.	GR	4167	301 Alexander	Te-2-9349	12 Fr. Williams Pky., Alexandria, Va.
Lowder, Darrell W.	FR	4426	131 Owen	Te-2-9473	911 Lowder, Albemarle, NC
Lowder, Hoyt Glenn	FR	4443	152 Owen	Te-2-9115	Rt. 1, Stanfield, NC
Lowder, James T.	JR	3717	117 Becton	Te-2-9256	P.O. Box 899, Fayetteville, NC
Lowie, Elvin F.	FR	4463	206 Owen	Te-2-9410	P.O. Box 242, Liberty, NC
Lowie, Richie H.	GR	71	Rt. 1, Cary		
Lowry, Edward R., Jr.	JR	5032	2210 Hope St.	Te-2-8971	106 Forestdale Dr., Greensboro, NC
Loyd, Archie Kay	SR		2226 Hillsboro	Te-4-7546	Rt. 1, Troutman, NC
Loyd, Max Ira	GR		B-11 Married Stu. Ho.		State Col. Stat.
Loyless, Wallace J.	FR	4312	205 Berry	Te-2-9363	P.O. Box 185, Chadbourn, NC
Lucas, Ashleigh M.	JR			Te-4-8566	2505 Stafford Ave., Raleigh, NC
Lucas, John W.	FR			Te-4-0404	2713 Kilgore Ave., Raleigh, NC
Lucas, Joseph R., Jr.	GR			Va-8-5048	941 Beverly Dr., Raleigh, NC
Lucas, Leon T.	FR	3020	202 Watauga	Te-2-9132	Rt. 2, Box 70, Halifax, NC
Lucas, Rufus Paul, Jr.	SR		2203 Hillsboro		Box 82, Sanford, NC
Lucas, Sherwood Paul	SO	4640	129 Tucker	Te-2-9367	Rt. 1, Dunn, NC
Lucas, William A.	SO	5566		Te-4-8227	965 Chester Cir., Fayetteville, NC
Luce, Stuart W.	GR		2713 Everette Ave.	Te-4-2721	152 Greenwood Ave., Wyncote, Pa.
Lugo, Hector M.	SR	3227	303 Goid	Te-2-9263	82 Tustiniano, Moyaguez, Poerto Rico
Lumpkin, Davis B.	FR	3017	117 Watauga	Te-2-9447	370 Avon Dr., Pittsburgh 28, Pa.
Lumsden, Robert D.	SR		2508 1/2 Vanderbilt	Va-8-9611	815 W. Great Falls St., Falls Church, Va.
Lund, John P.	GR	3230	306 Goid	Te-2-9263	3610 Kirby Dr., Greensboro, NC
Lupton, Johnny Richard	FR	4788	361 Tucker	Te-2-9323	Lowland, NC
Laurey, Edward	SO	15316	304-C Bragaw	Te-4-9253	7 Lynwood Rd., Asheville, NC
Lushene, Joseph M.	SO	3355	223 Bagwell	Te-2-9131	260 Glenwood Ave., Eau Gallie, Fla.
Lutig, Frank E.	SO	15008	103-D Bragaw	Te-2-9129	Tanglewood Park, Clemmons, NC
Luther, Ted W.	SR				3821 Western Blvd., Raleigh, NC
Luts, Penny Ray	JR	4440	149 Owen	Te-2-9473	Charlestown, Ind.
Luts, Gerald W.	FR		Apt. 2, Waco Hts., Rt. 7, Raleigh		Polkville, NC
Igerly, Thomas C.	JR		0-12 Married Stu. Ho.		F.O. Box 544, New Bern, NC
Igford, Sidney J., Jr.	JR		123 Brooks Ave.		RFD 1, Exter, NH
Igles, William G.	SO		529 YMCA		Lakehore Dr., Columbia, SC
Iynch, Fulton Lee, Jr.	JR				3015 Farrior Rd., Raleigh, NC
Iynch, James M.	SO	15227	110-A Bragaw	Te-2-9180	529 Summitt Dr., Sanford, NC
Iynch, Mark G.	SO				2055 White Oak Rd., Raleigh, NC
Iynch, Robert Edward, Jr.	FR	3306	106 Bagwell	Te-4-9219	Rt. 3, LaGrange, NC
Iynn, Marvin D.	SO		1126 Parker St.	Te-2-5450	310 Hunter Dr., Mt. Airy, NC
Iynn, William C.	SO			Te-4-3293	1405 Brooks Ave., Raleigh, NC
Iyon, Thomas H.	SR	4131	139 Alexander	Te-2-4257	224 Manmouth Ave., Durham, NC
Iytech, William D., Jr.	SR		3414 Hillsboro	Te-3-4808	203 W. Vance St., Laurinburg, NC
Iytle, Carroll Dean	FR	341-A	Rt. 1, Cary	Ho-7-4024	Rt. 1, Old Fort, NC
Iynton, Victor H.	GR		4210 Reavis Rd.	Te-3-4807	Longisland, NC
McAbbe, Barbara Ann	SO		205 Ashe St.	Te-2-2598	12 Pinecrest Tr., Wilmington, NC
McAdoo, Garland H., Jr.	SO	3030	212 Watauga	Te-2-9132	Rt. 10, Box 50, Greensboro, NC
McArthur, Daniel L.	FR	4573	362 Owen	Te-4-9836	Rt. 2, Box 139, Red Springs, NC
McArthur, Robert Douglas	FR	4128	135 Alexander	Te-2-9257	601 E. Warren St., Shelby, NC
McArthur, Ronald C.	FR	4259	231 Turlington	Te-2-9297	1103 Ragsdale Dr., Greenville, NC
McAteer, Porter Lee	BE	5545	222 Hillcrest	Te-2-3429	425 1/2 S. Linwood St., Gastonia, NC
McBane, George C., Jr.	SO		2611 Clark		Box 186, Hillsboro, NC
McBane, Harold J.	FR	4749	318 Tucker	Te-2-9323	Rt. 1, Whitsett, NC
McBrayer, Robert D.	GR			Te-2-3473	900 Chamberlain St., Raleigh, NC
McBride, Larry S.	SO	4259	231 Turlington	Te-2-9297	131 Durham Ave., Salisbury, NC
McBride, William F.	GR		Alumni Bldg.	Ext. 493	501 Spruce Dr., Fayetteville, NC
McCall, Harold G., Jr.	JR	15077	215-B Bragaw	Te-2-9185	Main St., Stoneville, NC
McCall, Floyd C.	SO		2926 Avenet Ferry Rd.	Va-8-5362	Penrose, NC
McCall, James F.	FR		125 Brooks Ave.	Va-8-3726	Rt. 1, Box 160, Flat Rock, NC
McCall, Thomas E., Jr.	FR		1718 Hillsboro	Va-8-4464	114 Discovay St., Black Mtn., NC
McCauey, Charles D.	SR			Te-4-2268	1203 Vic Charles Dr., Raleigh, NC
McCann, Robert Lynn	SR		2105 Myrtle Ave.	Te-2-6004	7233 Landess St., Alexandria, Va.
McCarley, Alexander O.	FR	4368	23 Stadium		F.O. Box 58, Wilmington, NC
McCarson, Tillman D., Jr.	FR	3210	110 Goid	Te-2-9263	Rt. 4, Box 292, Hendersonville, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
McCart, Gerald D.	GR			Te-4-6677	5125 Wiclioham Rd., Raleigh, NC
McCartner, Reid A.	SO		2504 Vanderbilt	Va-8-6164	1035 Myrtle School Rd., Gastonia, NC
McCarthy, James M.				Te-3-0242	1118 Norris St., Raleigh, NC
McClain, William R.	SR	15364	402-B Bragaw	Te-4-9754	845 Ohio Ave., Monaca, Pa.
McClenny, William A.	SO		2211 Hope St.	Te-4-7995	Lucama, NC
McClintock, Coy Edwin	SR	15411	424-D Bragaw	Te-4-9754	Rt. 1, Pleasant Garden, NC
McClure, George W.			2510 Vanderbilt	Te-2-1606	819 Bell Ave., N. Bradnock, Pa.
McClure, Robert Lee	FR	4693	222 Tucker	Te-2-9387	Rt. 3, Airport Rd., Gastonia, NC
McClure, William F.	GR		108 Ag. Engr. Bldg.	Ext 475	Rt. 2, Wake Forest, NC
McColl, George R.	SR	3592	328 Syme	Te-2-9222	Box 583, Thomasville, NC
McColl, William D.	JR	3579	315 Syme	Te-2-9222	Guilford, Thomasville, NC
McCollum, Charles G.	SR		130 Woodburn	Va-8-6702	Rt. 5, Reidsville, NC
McComb, David M.			708 St. Mary's	Te-2-0268	6373 Ave. N.W., Hickory, NC
McCombs, Darwin H.	SR			Te-4-9096	2148 Mayview Rd., Raleigh, NC
McCombs, David E.	JR	3537	205 Syme	Te-2-9150	513 Pinewood, Salisbury, NC
McCommons, Richard E.	SO			Te-2-9881	911 Brooks Ave, Raleigh, NC
McConnell, Alfred Earl	FR			Te-2-5176	5719 Waycross St., Raleigh, NC
McConnell, Peggy H.	SO		2512 Vanderbilt	Te-4-8656	1003 Vermont Ave., Pittsburgh 34, Pa.
McConnell, Thomas H.	SO	5667		Te-8-3323	609 Queen La., High Point, NC
McCorkle, John L.	SO	3311	111 Bagwell	Te-4-9219	2042 Vail Ave., Charlotte, NC
McCorkle, Richard A.	JR	5608	2702 Hillsboro	Te-2-1835	Box 373, Cherryville, NC
McGormick, James M.	SO	15022	111-B Bragaw	Te-2-9129	Rt. 6, Sanford, NC
McGottet, Orson Lane	SR	15132	315-D Bragaw	Te-4-9179	201 E. Catawba Dr., Mt. Holly, NC
McCracken, Jerry P.	SO	15108	305-A Bragaw	Te-4-9179	803 East King, Boone, NC
McCracken, Robert H.	SR	15193	419-D Bragaw	Te-4-9757	Box 191, Clyde, NC
McCrary, Clifford R., Jr.	JR	3258	211 Welch	Te-2-9119	316 W. 7th Ave., Lexington, NC
McCrary, James E.	SO	4629	118 Tucker	Te-2-9388	Rt. 1, Box 569, Roanoke Rapids, NC
McGuston, Johnny G.	SO		3414 Hillsboro	Te-3-4808	Rt. 7, Burlington, NC
McGuston, Phil Thomas, Jr.	SR	15168	407-D Bragaw	Te-4-9757	251 W. Mountain St., Kernersville, NC
McGulley, Michael D.	SO	15283	214-C Bragaw	Te-4-9123	MOQ 340-MIS, Quantico, Va.
McCurdy, David K.		4631	120 Tucker	Te-2-9388	1206 Wedgewood Rd., Flouirtown, Pa.
McCurry, James R.	FR	4334	1 Berry	Te-2-9350	108 W. Greenways, Greensboro, NC
McCurry, James Rodney	SO	5483	8 Ferndell La.		Rt. 2, Box 23, Candler, NC
McDaid, John R., III	FR			Te-2-2138	3109 Hillsboro, Apt. B-6, Raleigh, NC
McDaniel, Benjamin T.	GR	15298	222-A Bragaw	Te-4-9123	Star Rt., Picken, SC
McDaniel, Roger W.	FR	4695	224 Tucker	Te-2-9387	603 Pollock St., Kinston, NC
McDaniel, William R.	SR	592	Rt. 3, Raleigh, NC	Te-3-4273	
McDermott, John J.	JR	15047	125-C Bragaw	Te-2-9129	2916 Banner St., Durham, NC
McDonald, Allen W.	SO	15062	209-C Bragaw	Te-2-9185	Rt. 3, Box 98, Concord, NC
McDonald, Christopher R.	JR		300-D Chamberlain	Te-3-9337	Box 255, West End, NC
McDonald, Hugh D.	SR		104 Pogue St.	Va-8-2006	Rt. 1, Bunnlevel, NC
McDonald, John Rex	FR	15274	208-D Bragaw	Te-4-9123	Cameron, NC
McDonald, Peter W.	SR	4238	205 Turlington	Te-2-9297	207 Stone St., Thomasville, NC
McDonald, Robert Duncan	SR		521 N. East St.	Te-2-6017	Box 82, Jacksboro, Tenn.
McDonald, Robert L.					
McDougal, Lawrence G.	JR	15374	406-D Bragaw	Te-4-9754	Penn Ave., Spindale, NC
McDowell, Leland K.	JR		126½ Faircloth St.	Va-8-5572	103 Panoke St., Tarboro, NC
McDuffie, Leon Bobby					
McDuffie, Lacy F.	SO	4688	217 Tucker	Te-4-9828	Rt. 5, Box 251, Fayetteville, NC
McDuffie, William W.	FR			71591	Rt. 3, Durham, NC
McElroy, Charles H.	SR	4320	213 Berry	Te-2-9363	65 State St., Asheville, NC
McElroy, James E.	SO	3553	221 Syme	Te-2-9150	RFD 1, Box 615, Morehead City, NC
McElroy, William L.	SR			Te-3-0933	Apt. B, 2612 Glenwood Ave., Raleigh, NC
McElwee, Robert Lee	GR			Ho-7-9273	206 Heater Dr., Cary, NC
McEntire, Kenneth M.	FR				130 Cox Ave., Apt. C, Raleigh, NC
McEwen, Arthur J.	SR		5655 Western Blvd.	Te-3-5482	2401 Charlotte Dr., Charlotte, NC
McFarland, Clifton B., Jr.	SO	15124	313-A Bragaw	Te-4-9179	RD2, Rising Sun, Md.
McFarland, Ronald L.	FR				Rt. 5, Box 260, Durham, NC
McGahay, John A.	FR		2512 Clark	Te-2-4843	500 Parkway, High Point, NC
McGahay, Thad M.	FR		2209½ Hope St.	Te-4-3244	214 E. 13th St., Washington, NC
McGavias, James Ross	JR	15057	205-A Bragaw	Te-2-9115	915 W. Del. Ave., Draper, NC
McGee, Carl L.	SR		1718 Hillsboro	Va-8-4464	Rt. 1, Box 371, Lenoir, NC
McGee, George C.	SR	3003	103 Watauga	Te-2-9447	Box 384, Snow Hill, NC
McGee, Hubert W.	SO	3238	102 Welch	Te-2-9119	Rt. 2, Box 256, Kernersville, NC
McGee, John C.	GR				906 Canterbury Rd., Raleigh, NC
McGee, John E.		3727	127 Becton	Te-2-9256	Rt. 3, Waxhaw, NC
McGee, Mervin M., Jr.	SO	3359	227 Bagwell	Te-2-9131	RFD 2, Newton, NC
McGee, Wesley O.	JR	5566		Te-4-8227	Kiser Rd., Laurinburg, NC
McGhee, Wyatt L.	JR	3022	204 Watauga	Te-2-9132	Rt. 2, Franklinton, NC
McGibbon, David A., II	FR			Te-4-8918	4218 14th St., Raleigh, NC
McGinnis, Jake A.					
McGinnis, Jerry R.	JR	15294	220-A Bragaw	Te-4-9123	Asheville, NC, 10 Princeton Dr.
McGinnis, Roy W.	PROF		105 Park Ave.		Box 73, Rt. 1, Morven, NC
McGinty, Bill F.	FR	4302	102 Berry	Te-2-9350	2200 Pembroke, Charlotte, NC
McGirt, Albert F., Jr.	FR	4670	163 Tucker	Te-2-9367	Rt. 2, Rowland, NC
McGlamery, Neal V., Jr.	FR	4717	250 Tucker	Te-2-9387	210 Wilnot Dr., Raleigh, NC
McGlohon, Norman E.	GR		UK-31 Vetteville	Va-8-6582	
McGlohon, Wayland D.	JR	3615	19 Syme	*e-2-9421	407 Park Ave., Ayden, NC
McGrady, Johnny	GR	3389	323 Bagwell	Te-4-9219	Rt. 1, N. Wilkesboro, NC
McGugan, Glenn H.	FR	4720	253 Tucker	Te-4-9828	771 Austin La., Winston-Salem, NC
McGuinn, John A.	SO	3266	232 Becton	Te-2-9334	Box 274, Tryon, NC
McGuire, James M.	GR		2820 Everett	Te-4-0731	Rt. 1, Box 67, Gassville, Ark.
McGwier, James P.		4402	132 Woodburn Rd.	Va-8-6515	1409 Walker Ave., Greensboro, NC
McInnis, Angus C.		4750	103 Owen	Te-2-9437	McKay, Wagram, NC
McInnis, John William	FR	4750	319 Tucker	Te-2-9323	Rt. 2, Candor, NC
McIntosh, Forest K.	JR	4543	328 Owen	Te-4-9300	Rt. 1, Stanley, NC
McIntosh, Maurice D.	SO	4722	255 Tucker	Te-2-9387	Rt. 11, Box 483, Charlotte, NC
McIntyre, James B.	UN		2512 Clark	Te-2-4843	1409 E. Mulberry, Goldsboro, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
McIntyre, Johnny A.	SR		211 Cox Ave.	Va-8-5272	Robbins, NC
McIver, Chandler H.	SO		252 Gardner Hall		2605 Cromwell Rd., Raleigh, NC
McKay, John Woods, Jr.	JR	3563	231 Syme	Te-2-9150	2527 Barry St., Charlotte 5, NC
McKay, Wilbur F.	JR	15264	204-B Bragaw	Te-4-9123	Box 6, Marston, NC
McKelvey, Gary M.	JR			Va-8-4149	2801 Rothgeb Dr., Raleigh, NC
McKensie, Henry D.	FR	4740	307 Tucker	Te-2-9323	Rt. 2, Kingstree, SC
McKensie, Kenneth E.	SR		2514 Clark		466 Windsor Rd., Asheville, NC
McKenzie, Wayland M.	FR	3740	206 Becton	Te-2-9334	345 N. 10th St., Albemarle, NC
McKinney, James D.	SO	15334	314-A Bragaw	Te-3-4808	Box 55, Jonesville, SC
McKinney, Salve A., Jr.	FR	4470	215 Owen	Te-2-9410	Rt. 1, Box 258, Spruce Pine, NC
McKiesick, Charles E.	FR	4705	235 Tucker	Te-2-9387	
McKnight, Thomas G.	FR	4418	123 Owen	Te-2-9115	1319 Bretton St., Winston-Salem, NC
McKnight, Thomas Jean	FR	3545	213 Syme	Te-2-9150	1210 Greenspring Rd., New Bern, NC
McLamb, Nathan H.	SR	5545	222 Hillcrest	Te-2-3429	Rt. 1, Clinton, NC
McLaren, Ronald E.	FR	3550	218 Syme	Te-2-9150	312 Moore St., Beaufort, NC
McLaughlin, Albert W.	FR	4737	304 Tudor	Te-4-9739	Effingham, SC, Rt. 1
McLaughlin, Robert D.	FR	3622	26 Syme	Te-2-9421	Rt. 3, Mooresville, NC
McLaurin, Carl M., Jr.	SR			Va-8-2195	1300 Gorman St., Raleigh, NC
McLaurin, Hector E.	FR	3364	232 Bagwell	Te-2-9131	112 W. Main St., Clinton, NC
McLavhorn, Thomas H.	FR	3729	129 Becton	Te-2-9256	P.O. Box 23, Winterville, NC
McLavhorn, Luke B., Jr.	SO		Q-315 Married Stu. Ho.		Box 265, Grifton, NC
McLean, Arthur F.	GR		813-D Daniels	Te-4-5994	Box 186, Florence, SC
McLean, Lauch H., Jr.	FR	4584	16 Enterprise St.	Te-3-2093	802 N. Main St., Laurinburg, NC
McLean, John F.	FR	15369	50 Owen	Te-2-9142	113 College St., Red Springs, NC
McLeod, Leo C.	FR		404-C Bragaw	Te-4-9754	1516 N. W. Blvd., Winston-Salem, NC
McLeod, Marshall W.	SO		130 Hawthorne Rd.	Va-8-3347	Box 188, Mt. Pleasant, NC
McLeod, Michael S.	FR	15358	324-D Bragaw	Te-4-9253	802 Arbordale, High Point, NC
McLeod, Randolph G.	JR		1709 Hillsboro	Te-3-6901	9400 Old Georgetown "d., Bethesda, Md.
McLeod, William L., Jr.	JR	4812	62 Tucker	Te-2-9186	1908 Glendale Ave., Durham, NC
McMahon, Charles D.	SR	1718	1718 Hillsboro	Va-8-4464	P.O. Box 192, Swannanoa, NC
McMahon, Jerry A.	SR		3821 Western Blvd.		617 Valdese Ave., Morganton, NC
McManus, George C., III	SR		101 1/2 Chamberlain St.	Va-8-5265	1044 E. Main St., Albemarle, NC
McMillan, Donald A.	SO				A-14 Married Stu. Ho., State Col. Stat.
McMillan, Edward L.	JR	5142	Rt. 1, Cary	Ho-7-9598	McLellan St., Brewton, Ala.
McMillan, Frank D.	JR	3745	211 Becton	Te-2-9334	Box 346, Red Springs, NC
MacMillan, John O.	FR	4600	67 Owen	Te-2-9142	310 Bradford Ave., Fayetteville, NC
McMillan, Philip G.	FR	4719	252 Tucker	Te-2-9387	West Jefferson, NC
McMullen, John D.	FR	4512	261 Owen	Te-2-9252	116 Falkirk St., Fort Wentworth, Ga.
McMurray, Charles L.	JR	3221	209 Gold	Te-2-9263	Box 845, Spruce Pine, NC
McNeely, Ralph D.	GR		UK-44 Vetville	Te-3-2121	Box 222, Drexel, NC
McNeil, James A., Jr.	FR	3363	231 Bagwell	Te-2-9131	P.O. Box 147, Southport, NC
McNeill, James Ralph	SR		406 N. Blount St.	Va-8-4273	Rt. 1, Box 38, Lansing, NC
McNeill, Donald C.	FR		G-6 Shelton Apts.	Te-4-5723	Rt. 2, Red Springs, NC
McNeill, Kenneth M.	JR	4671	164 Tucker	Te-3-9388	Rohanen Ave., E. Rockingham, NC
McNeill, Thomas David	SR	3589	325 Syme	Te-2-9222	11 Lanark Rd., Raleigh, NC
McNinch, William G., Jr.	SO		1720 Hillsboro	Te-4-0451	1235 Greenwood Cliff, Charlotte, NC
McPhaul, Fletcher G.	FR	4600	67 Owen	Te-2-9142	Rt. 1, Red Springs, NC
McPherson, John P.	SR		L-12 Married Stu. Ho.	Va-8-2015	
McPherson, Robert R.	SO	15139	319-C Bragaw	Te-4-3288	1203 Miami Blvd., Durham, NC
McRae, David S.	SR	15371	406-A Bragaw	Te-4-9754	Box 275, Ellerbe, NC
McRae, John S., III	PROF		B-6 Shelton Apts.		108 Elmwood Terr., Greensboro, NC
McRary, John W.	SR		3414 Hillsboro	Te-4-5671	434 Midland, Asheville, NC
McRee, Leonard C.	JR	3604	8 Syme	Te-2-9421	616 N. Deal Ave., Newton, NC
McRorie, Andrew F.	GR				159 Virginia Ave., Asheville, NC
McSwain, Wade H., Jr.	JR		2314 Hillsboro	Te-4-3375	531 E. Main St., Albemarle, NC
McVicker, Gerald P.	JR		1618 Hillsboro		Maxton, NC
McVicker, James R., Jr.	PROF		1618 Hillsboro		323 E. Church St., Laurinburg, NC
McWhorter, Billy G.	JR	4700	229 Tucker	Te-4-9828	203 Sharpe Ave., Kannapolis, NC
Mabe, Harold R.	JR	1508	1403 S. Wilm. St.	Te-4-0589	125 Air Fk. Dr., Morganton, NC
Mabe, Jimmy W.	SO	3241	105 Welch	Te-2-9119	Rt. 2, Kernersville, NC
Mabe, Robert A.	SO		A-11 Married Stu. Ho.		Star Rt., Walnut Cove, NC
Mabry, Larry G.	FR	4428	133 Owen	Te-2-9115	Rt. 2, Box 198, Mt. Gilend, NC
Mabry, Larry Waddell	FR	4173	309 Alexander	Te-2-9349	RFD 2, Norwood, NC
Mace, Ronald L.	FR	252	W&L Tr. Haven, Cary		304 Crafton, Winston-Salem, NC
Mace, Samuel V.	SR	15381	410-C Bragaw	Te-4-0003	Rt. 2, Box 155, Street, Md.
Mack, Edward J.	FR	4505	254 Owen	Te-2-9252	4636 Long Leaf Hills Dr., Wilmington, NC
Mackintosh, Donald F., II	JR	4675	202 Tucker	Te-2-9387	Box 2701, Winston-Salem, NC
Mackland, Donald W.	FR	4132	140 Alexander	Te-2-9257	713 King Richard Rd., Raleigh, NC
Macomson, Michael R.	SO	15009	105-A Bragaw	Te-2-9129	910 W. Marion, Shelby, NC
Macoon, Randolph B.	FR	4794	41 Tucker	Te-2-9237	Rt. 1, Box 134, Rameur, NC
Maddox, Caleb Jones	SR			Va-8-5740	3812 Sherman Ave., Raleigh, NC
Maddrey, James G., Jr.	FR			Te-2-3359	2815 Hayview Rd., Raleigh, NC
Madre, Edward Lee	SR		2718 Clark	Te-2-6451	Rt. 1, Hertford, NC
Madren, Frank S.	FR			Va-8-4802	2419 Hayview Rd., Raleigh, NC
Magee, Dallas G.	FR	4473	218 Owen	Te-2-9252	Yale, Va.
Mahaney, Arthur R., Jr.	FR		1710 Hillsboro	Te-4-2001	Box 145, Kenbridge, Va.
Maher, William F., Jr.	SO	15365	402-C Bragaw	Te-4-9754	Goodwin Rd., Bolton, Conn.
Maheras, Harry Gus	FR	15184	415-C Bragaw	Te-4-9757	601 Dartmouth Dr., Gastonia, NC
Mahmood, Syed H.	GR		7 1/2 Maiden La.	Te-2-3010	17/6 V C Nazimabad, Karachi, Pakistan
Mahoney, William A., Jr.	FR	3707	107 Becton	Te-2-9256	Rt. 3, Box 78-A, Whiteville, NC
Maiden, Donald L.	SO	3543	211 Syme	Te-2-9150	Rt. 3, Box 343, Greensboro, NC
Mainster, Martin A.	SO	15083	217-D Bragaw	Te-2-9185	1615 Jefferson Ave., Miami Beach, Fla.
Maitra, Pranab K.			124 Riddick	ext 347	
Major, Eugene H., Jr.	FR	4674	201 Tucker	Te-4-9828	Rt. 1, Charles City, Va.
Makepeace, William R.	FR	15042	123-B Daniels	Te-2-9129	515 Greensboro Ave., Sanford, NC
Mallios, William Steve	GR		831-D Daniels St.		400 N. 4th St., Lafayette, Ind.
Mallory, Ray R.	JR	4692	221 Tucker	Te-2-9387	2-6 Mass Dr., Ft. Bragg, NC
Malmberg, William Carl	JR	15159	403-C Bragaw	Te-4-9757	850 Montford, Charlotte, NC
Malone, Philip W.	SO	4471	216 Owen	Te-2-9252	Rt. 6, Statesville, NC
Malpass, Wendell A.			1809 White Oak Rd.		1112 Dunn Rd., Winston, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Malpass, William	SR	15300	222-C Bragaw	Te-4-9123	857 Woodstock Rd., Norfolk, Va.
Malski, Edmund H.	SO	4433	139 Owen	Te-2-9473	Westover Park, Apt. B-14, Durham, NC
Mancini, Gerald D.	SR	15364	402-B Bragaw	Te-4-9754	712 11th St., McKees Rocks, Pa.
Maness, James Lee	FR		704 Catauba	Va-8-4475	Rt. 1, Box 170, Star, NC
Mangum, Conley N.	SO	15382	410-D Bragaw	Te-4-9754	Rt. 1, Rougemont, NC
Mangum, Fred Allen, Jr.	FAC			Te-2-5850	1414 Aheburton Rd., Raleigh, NC
Mangum, Jerry L.	FR	4265	240 Turlington	Te-2-9297	614 Peartree Rd., Raleigh, NC
Mangum, William W., Jr.	SO	4538	323 Owen	Te-4-9300	3810 Pendergrasse, Durham, NC
Mann, Buddy O'Neill	GR		807 W. Lenoir St.		M.R. Box 16, Princeton, W. Va.
Mann, Charles F.	SR		3800 Western Blvd.	Te-4-7009	Rt. 1, Canton, NC
Mann, George M., Jr.	SO	15389	414-C Bragaw	Te-4-9754	801 Forest Hills, Wilmington, NC
Mann, Harold R.	SR		123 Ashe Ave.	Va-8-4247	Rt. 2, Mebane, NC
Mann, Jimmie W.	JR		2726 Cambridge Rd.	Te-2-1208	Rt. 1, Box 485, Waynesville, NC
Mann, Ronald Barry	SO	15228	110-B Bragaw	Te-2-9180	1524 E. Farrior Ave., High Point, NC
Mann, Truxton King, Jr.	SR	15275	210-A Bragaw	Te-4-9123	1506 Spencer Ave., New Bern, NC
Manna, Ronald A.	FR	4650	140 Tucker	Te-2-9388	RFD 1, Sussex, NJ
Manning, Henry Lee, Jr.	SO		Col. View Tr. Fk., Ral.		Middlesex, NC
Manning, John A.	SO			Te-3-6931	1306 Rand Dr., Raleigh, NC
Manning, John Nives	JR	3809	7 Becton	Te-2-9261	700 Henry St., Roanoke Rapids, NC
Manning, Richard O.	FR	4627	116 Tucker	Te-2-9367	508 W. Bay, Dum, NC
Manning, Richard Strancil	SR	15256	126-B Bragaw	Te-2-9180	118 Simons Ave., Williamston, NC
Mansfield, Charles E.	SR		0-16 Married Stu. Ho.	Te-3-8907	Rt. 4, Box 76, Greensboro, NC
MaIntyre, William H., Jr.	FR		835-C Daniels St.	Te-8-6148	
McLaughlin, Martha H.	FR		123 Forest Rd.	Te-3-5200	Box 448, N. Wilkesboro, NC
McIntosh, George L.	SO		200 Brooks Ave.		1031 W. Little Ave., Gastonia, NC
Maravich, Nicholas M.	JR	15179	413-C Bragaw	Te-4-9757	264 Gamble St., Bridgeville, Pa.
Marchant, William F.	FR	3560	228 Syme	Te-2-9150	33 Sunset Dr., Summit, NJ
Marchman, James F., III	FR	4500	249 Owen	Te-2-9410	619 E. Main St., Forest City, NC
Marcopoulos, Vassilios George	JR	3054	318 Watauga	Te-2-9488	44 Omirou St., Thessaloniki 13, Greece
Marcum, John Mills	SO	15087	219-D Bragaw	Va-8-5905	Box 869, So. Pines, NC
Margolis, Marvin Samuel	JR	15020	109-D Bragaw	Te-2-2995	Shaw, St. Paul's, NC
Mark, William, Jr.	SO	4758	327 Tucker	Te-2-9323	418 N. Clarendon Ave., Chicago, Ill.
Markham, Murock H., Jr.	SO			Te-3-8550	208 Ashe Ave., Raleigh, NC
Markas, John Gus	SR	15126	313-C Bragaw	Te-4-9179	108 Brooks St., Burlington, NC
Marks, David D.	JR		21 Enterprise St.	Te-4-2815	804 Bay St., Morehead, NC
Marks, Shugrod B., Jr.	FR	4735	267 Tucker	Te-2-9387	439 N. Mercer St., Rocky Mt., NC
Marks, Stuart A.	SR	5276	YMCA	Te-2-7184	Rt. 2, Box 67, Wilmington, NC
Marks, William Olen	SR			Te-3-7130	712 Brooks, Raleigh, NC
Marley, William G., Jr.	JR	3241	105 Welch	Te-2-9119	Box 58, Lumber Bridge, NC
Marlin, William R.	FR	4465	208 Owen	Te-2-9119	Rt. 6, Box 26, Statesville, NC
Marlin, Joe A.	GR			Te-4-3043	N-12 Married Stu. Ho., State Col. Stat.
Marlowe, Robert E.	FR	4345	A Berry	Te-2-9350	Rt. 2, Hendersonville, NC
Marrow, John W.	FR	4482	227 Owen	Te-2-9410	Golf Rd., Plymouth, NC
Marrow, Thomas F., III	SR		2464 Wade Ave.	Te-4-5780	205 S. Pineview, Goldsboro, NC
Marsh, Elissa H.	SO		10 Enterprise St.		Camden, Rd. 3, Wadesboro, NC
Marsh, Donald H.	FR	3739	205 Becton	Te-2-9334	3024 N. Center St., Hickory, NC
Marsh, Herbert V., Jr.	GR			Va-8-2987	Box 71, Rt. 1, Cary, NC
Marshall, Henry W., Jr.	FR	4658	151 Tucker	Te-2-9388	702 Gatewood Ave., High Point, NC
Marshall, John T.	FR	4795	43 Tucker	Te-2-9237	407 Forest Ave., High Point, NC
Marshall, Michael G.	JR	120-A	Rt. 6, Creedmoor Rd.	Te-3-6072	1015 E. Sprague St., Winston-Salem, NC
Marshall, Wayne W.	SO			Te-2-4274	407 W. Aycock St., Raleigh, NC
Marshburn, James P	SO	4119	124 Alexander	Te-2-9257	726 Mill, Rocky Mt., NC
Martin, Arthur W.	FR	4527	310 Owen	Te-4-9300	502 E. Park St., Cary, NC
Martin, Chreston F.	GR	5372	203 Alumni Hall	Te-2-9322	Rt. 1, Landrum, SC
Martin, Daniel Ray	FR	4184	321 Alexander	Te-2-9349	East College St., Narrows, Va.
Martin, Donald C.	GR		208 Riddick Lab.		820 Carlisle St., Raleigh, NC
Martin, Gene H.	JR	3322	122 Bagwell	Te-4-9219	Box 272, W. 3rd St., Robersonville, NC
Martin, James B.	FR	3784	316 Becton	Te-2-9372	1175 Berkley Ave., Florence, SC
Martin, James E.					
Martin, James Lee	SR			Te-2-4851	1303 Baez St., Raleigh, NC
Martin, James Willis, Jr.	FR	4464	207 Owen	Te-2-9410	Rt. 4, Box 786, Lenoir, NC
Martin, Jesse F.	JR	15220	106-B Bragaw	Te-2-9180	Box 150, Jamesville, NC
Martin, Joel F.	SR	3589	325 Syme	Te-2-9222	Rt. 1, Troutman, NC
Martin, Johnny S.	SO	15115	307-D Bragaw	Te-4-9179	224 Realty St., Lenoir, NC
Martin, Kenneth M.	FR	3114	104 Fourth	Te-2-9159	1802 Guess Rd., Durham, NC
Martin, Larry G.	FR	3791	323 Becton	Te-2-9372	Lasker, NC
Martin, Loyd C.	GR		3208 Ruffin St.	Te-4-5895	3104 Gaylor Place, Silver Spring, Md.
Martin, Nathaniel A.	SR		3414 Hillsboro	Te-3-4808	Danbury, NC
Martin, Robert Lee, Jr.	SO			Te-2-5149	1503 Cherokee Dr., Raleigh, NC
Martin, Roy H., Jr.	FR		2710 1/2 Everett	Te-4-0137	727 Oakland, Hendersonville, NC
Martin, Walter D. Jr.	FR	4542	327 Owen	Te-4-9836	Ronda, NC
Martin, Wilco Allen	FR	3557	225 Syme	Te-2-9150	6th St., Belmont, NC
Martin, William Penn	FR	3825	24 Becton	Te-2-9261	3806 Groometown, Greensboro, NC
Martin, William Ray	SO	15312	302-C Bragaw	Te-4-9253	Rt. 2, Box 95-A, Lenoir, NC
Martin, William Royall	UN			Ho-7-9946	216 Heater Dr., Cary, NC
Martinez, Leon A.	GN		1213 Dixie Tr.		295 Lat. URB, Brooklyn Caguas, Puerto Ri.
Marvel, Russell G.	SO	15101	301-B Bragaw	Te-4-9179	2935 Calhoun St., Cary, Ind.
Marwits, Charles A.	JR	3321	121 Bagwell	Te-4-9219	501 Reynolds Dr., Charlotte, NC
Marshburn, Harry Lee	FR	3706	106 Becton	Te-2-9256	4508 Loring St., Philadelphia 36, Pa.
Mask, Harold L.	FR		2735 1/2 Rosedale Ave.		
Mason, Franklin G.	SO			Te-4-5930	114 Faircloth St., Raleigh, NC
Mason, John R.	SO	3119	201 Fourth	Te-2-9159	Newport, NC
Mason, William H., Jr.	FR			Te-3-7439	2404 Milburnie, Raleigh, NC
Massad, Elbert G.	FR	3324	124 Bagwell	Te-4-9219	Church St., Benson, NC
Massell, Gary Alan	SR			Te-4-7736	2322 McMillan Cir., Raleigh, NC
Massengill, Ransom J., Jr.	SR			Va-8-2088	409 Wayne Dr., Raleigh, NC
Massey, Ben F.	SR	10093	111 Faircloth St.	Va-8-3925	Zebulon, NC
Massey, Dewey L., Jr.					
Massey, Harry Clinton	SO			Te-2-4835	1109 Watauga St., Raleigh, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Massey, James T.	FR	4415	120 Owen	Te-2-9437	121 Whitaker, Clayton, NC
Massey, Jerry P.	SR		J-13 Married Stu. Ho.	Te-2-7176	Raleigh, NC
Massey, Morgan T.	UN		416 Dixie Tr.	Te-2-1308	1318 Carlton Ave., Charlotte, NC
Massey, Murray F., Jr.	SR		2615 Avents Ferry Rd.	Te-4-0049	5315 High Point Rd., Greensboro, NC
Matheson, Edward B.	SO	4367	23 Stadium		Grandview Dr., Brevard, NC
Mathis, Gene A.	GR	341-A	Danton's Tr. Pk., Cary	Ho-7-9820	Anderson, Md.
Mathis, Richard E.	FR	4547	332 Owen	Te-4-9300	84 N. Main St., Canton, NC
Matlock, Ronald J.	SO	4789	362 Tucker	Te-2-9323	4418 Blenheim, Louisville, Ky.
Matthes, Ralph Kenneth, Jr.	GR		2319 Lyon St.	Te-4-2968	901 Lakeside Dr., Conway, SC
Mattheus, Douglas B.	SR		202 Ashe Ave.	Va-8-9534	1109 Herring Ave., Wilson, NC
Mattheus, Douglas M.	FR			Te-4-7872	528 E. Peace St., Raleigh, NC
Mattheus, Hazel B.	SO	3330	130 Bagwell	Te-4-9219	Hertford, NC
Mattheus, Henry A.	JR	4333	313 Berry	Te-2-9363	Box 77, Lakeview, NC
Mattheus, Joseph C., Jr.	GR				4705 Western Blvd., Raleigh, NC
Mattheus, Samuel C.	SR			Va-8-3768	2722 1/2 Fairview, Raleigh, NC
Mattheus, Samuel F.	SR		G-22 Married Stu. Ho.		205 S. Church, Monroe, NC
Mattheus, Walter F.	SO	3012	112 Watauga	Te-2-4497	2509 Kenmore Dr., Raleigh, NC
Mattox, Arthur D.	FR		B-16 Married Stu. Ho.		436 Richland Rd., Charlotte, NC
Matzke, George A.	FR	4249	221 Turlington	Te-2-9297	138 Beverly Rd., Hempstead, NY
Maugans, Burton T.	FR	3512	112 Syme	Te-2-9288	Rt. 2, Box 468, Greensboro, NC
Mauney, James L.	JR	4639	128 Tucker	Te-2-9388	Box 306, Oakboro, NC
Mauney, James M.	SR	3257	205 Welch	Te-2-9119	Box 242, Burgaw, NC
Mauney, James William	JR		2316 Bernard St.		Rt. 4, Lincolnton, NC
Mauney, Ronald M.	SR	15332	312-C Bragaw	Te-4-9253	Rt. 3, Shelby, NC
Maus, James R., Jr.	GR			Va-8-9624	2623 Avents Ferry Rd., Raleigh, NC
Maxwell, Earle C.	FR	3814	17 Becton	Te-2-9261	224 S. Caswell St., Charlotte, NC
Maxwell, Hugh G.	SR		108 Ashe Ave.	Te-4-1024	1112 Evergreen Ave., Goldsboro, NC
May, Daniel J.	FR	3541	209 Syme	Te-2-9150	Box 1183, Hendersonville, NC
May, Robert E.	SR	5624	206 Alumni Bldg.	Ext 394	502 W. Lenoir, Kinston, NC
May, William Minor	JR			Te-3-7165	908 Canterbury Rd., Raleigh, NC
Mayer, Ronald M.	JR	15129	315-A Bragaw	Te-4-9179	72 Henrietta, Asheville, NC
Mayes, Paul R.	FR			Te-2-9857	808 E. Pineland Dr., Raleigh, NC
Maynard, Atlas A., III	GR	4766	336 Tucker	Te-4-9739	Harrells, NC
Mayton, Robert L., Jr.	SO			Te-3-1733	302 Glascock St., Raleigh, NC
Mead, Byron L.	SR	15202	425-A Bragaw	Te-3-7658	23 Deby Rd., Norwood, NC
Mead, Charles H.	SR		703-B Daniels St.	Va-8-4922	2021 Sunset Ave., Durham, NC
Meadows, Bobby L.	SR		821-B Daniels St.	Va-8-2492	1721 Chapel Hill Rd., Durham, NC
Meadows, Eugene T.	JR	361-A	4t. 1, Cary		Rt. 1, Hiddenite, NC
Meads, Lester Byron	JR		130 Woodburn Rd.	Va-8-6702	Rt. 4, Box 578, Elizabeth City, NC
Meares, Ida Joyce	FR			Te-3-3386	Rt. 6, Raleigh, NC
Meares, James G.	JR	4353	8 Stadium		110 Iona St., Fairmont, NC
Medders, Ronald R.	SR		2612 Glenwood Ave.	Va-8-4639	E. Glendale Ave., Mt. Holly, NC
Medlin, Charles H.	JR		3043 Lewis Farm Rd.		814 Woodside Ave., Charlotte, NC
Medlin, Dennis B.	JR	4354	9 Stadium		Rt. 3, Benson, NC
Medlin, Sanford F.	JR				E-23 Married Stu. Ho., State Col. Stat.
Meeks, Harvey Dale	FR	4682	209 Tucker	Te-4-9828	118 Star Hill Ave., Fayetteville, NC
Mehlick, Adolf L.	FR			Te-4-8936	3410 Lewis Farm Rd., Raleigh, NC
Melton, Braxton B.	FR	4807	57 Tucker	Te-2-9237	520 Ervin Rd., Morganton, NC
Melton, Robert B.	SO	15135	317-C Bragaw	Te-4-9179	114 Underdown Ave., Lenoir, NC
Melvin, Edice C.	JR			Va-8-5384	904 Harp Terr., Raleigh, NC
Mendez, Alberto	SR	5732	230 Becton	Te-2-9334	CRA. 21, 634-37, Bogota, Colombia
Mendez, Jose F.	SO	3121	203 Fourth	Te-2-9159	San Gerardo H28 Rio Piedras, P.R.
Mercer, Charles Devon	FR	4419	124 Owen	Te-2-9437	403 Biltmore, Greenville, NC
Mercer, Walter K.	JR		213 Folk St.	Va-8-9907	1006 Desmond St., Kinston, NC
Merricks, James A.	GR		1339 Baez St.	Tr-3-7669	P.O. Box 128, Reidsville, NC
Merrill, Thomas W.	SR	28	Penrose, NC	Tr-3-6488	
Merritt, Edward E.	FR	4467	210 Owen	Te-2-9410	2414 Tanglewood Ln., Charlotte, NC
Merritt, Frank S.	FR	4709	239 Tucker	Te-2-9387	605 Park Ave., Ayden, NC
Merritt, Kenneth E.	SR	3355	223 Bagwell	Te-2-9131	Rt. 2, Box 240, Clinton, NC
Merritt, Max B.	SR	15100	301-A Bragaw	Te-4-9179	Rt. 1, Richfield, NC
Messick, Robert E.	SO			Te-4-3235	1217 Kent Rd., Raleigh, NC
Metcalf, William H.	JR			Va-8-2746	412 N. Wilmington St., Raleigh, NC
Mettrey, John M.	JR			Te-3-2367	1402 Wake Forest Rd., Raleigh, NC
Mettrey, Michael Thomas	JR			Te-3-2367	1402 Wake Forest Rd., Raleigh, NC
Mettrey, William, Jr.	SR			Te-3-2367	1402 Wake Forest Rd., Raleigh, NC
Metts, Alvin S.	JR		2700 Bromley St.	Va-8-3754	Rt. 2, Trenton, NC
Mets, David A.	FR	4552	338 Owen	Te-4-9836	19 Oregon Dr., Huntington Station, NY
Meyer, Gene James	FR	3793	235 Becton	Te-2-9372	92-38 220 St., Queens Village, NY
Michael, William B.	SR	15371	406-A Bragaw	Te-4-9754	Bostic, NC
Michaels, Thomas D.	SR	5566		Te-4-8227	415 Forsyth, Raleigh, NC
Mickey, William L.	FR	3540	208 Syme	Te-2-9150	3117 S. Main St., High Point, NC
Mickle, Clyde B.	SO		1720 Hillsboro	Te-4-0451	623 D Ave., Salisbury, NC
Mickle, Colbert F.	SR		628 Heartree Rd.		Box 1329, Wilson, NC
Middleton, Joseph B.	JR		2512 Clark	Te-2-4843	324 Raymond Ave., Alexandria, Va.
Middleton, William R., Jr.	JR	71	Rt. 1, Cary	Te-4-0102	
Miki, Takashi	GR	3214	202 Gold	Te-2-9263	71 Tairanachi Meguroku, Tokyo, Japan
Miles, Wesley G.	JR			Va-8-4631	125 Cox Ave., Apt. 8, Raleigh, NC
Miles, William T.	FR	4110	113 Alexander	Te-2-9257	Box 162, Warrenton, NC
Miller, Billy Ray	GR		215 Woodburn Rd.	Te-2-6159	Rt. 1, Owens Cross Rd., Ala.
Miller, Calvin Max	SO	4261	235 Turlington	Te-2-9297	Rt. 5, Box 652, Salisbury, NC
Miller, Charles A., Jr.	PROF		10 Enterprise St.		Monument Ave., Richmond, Va.
Miller, Daniel W.	JR	4233	202 Turlington	Te-2-9297	Rt. 7, Salisbury, NC
Miller, David E.	SR	3532	201 Syme	Te-2-9150	404 S. Vendenhall St., Greensboro, NC
Miller, DeWitt	JR		F-13 Married Stu. Ho.	Te-4-2458	Beulaville, NC
Miller, Emmett Hart, Jr.	GR				119 Fasquottank, Raleigh, NC
Miller, Garry E.	FR	4678	205 Tucker	Te-2-9387	1208 Ford St., Winston-Salem, NC
Miller, Gene S.	SO	5566		Te-4-8227	Rt. 2, Box 116, Salisbury, NC
Miller, Harold T.	FR	3648	312 Watauga	Te-2-9488	Belcross, NC
Miller, Henry E., Jr.	SR		3414 Hillsboro	Te-4-5671	115 Borden Ave., Wilmington, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Miller, Henry L.	SO	4232	201 Turlington	Te-2-9297	Rt. 4, Box 128, Salisbury, NC
Miller, Henry Van.	SR		130 Hawthorne Rd.	Va-8-3347	426 West End Blvd, Winston-Salem, NC
Miller, James A.	GR	3230	306 Gold	Te-2-9263	Box 242, Burnside, Ky.
Miller, James G.	SR			Te-2-0024	3104 Raymond St., Raleigh, NC
Miller, John R.		3620	24 Syme	Te-2-9421	1904 LaFayette Ave., Greensboro, NC
Miller, Lawrence F.	FR	4516	265 Owen	Te-2-9252	1255 Wedgewood, Winston-Salem, NC
Miller, Philip R., Jr.	SO	15398	418-C Bragaw	Te-4-9754	31 Louisa Ave., Concord, NC
Miller, Robert E.	JR	15367	404-A Bragaw	Te-4-9754	Ft. 6, Box 815-K-2, Charlotte, NC
Miller, Robert H.	GR	5111	606 Dixie Tr.		FD 1, Mt. Ulla, NC
Miller, Robert W.	SR		202 Ashe Ave.	Te-4-9139	213 E. Harford St., Milford, Pa.
Miller, Ronald J.	FR	4755	324 Tucker	Te-4-9219	Rt. 3, Tabor City, NC
Miller, Ronald L.	FR	3401	133 Bagwell	Te-4-5402	100 Bay first St., West Islip, NY
Miller, Thomas	SO				2206 Brewer St., Raleigh, NC
Miller, Thomas Benbow			1720 Hillsboro		890 Mocksville Ave., Salisbury, NC
Miller, Thomas Gill	GR			Va-8-5932	1006 Tower St., Raleigh, NC
Miller, Thomas Wayne	SR		1710 Hillsboro	Te-4-2001	Tabor City, NC
Miller, Titus Alfred, III	FR	4780	353 Tucker	Te-2-9323	RD 1, Auburn, Pa.
Miller, Truman W.	FR	4466	.09 Owen	Te-2-9252	121 L. Mollingsworth Dr., Lakeland, FL
Miller, William D.	SR	3242	106 Welch	Te-2-0268	Rt. 4, Box 516 C, Greensboro, NC
Miller, William E.	SO	15367	404-A Bragaw	Te-4-9754	West Jefferson, NC
Millhiser, Frederick R.	FR	4215	118 Turlington	Te-4-9276	839 Jefferson Ave., Waynesboro, Va.
Miliken, Mary E.					2000 Watkins St., Raleigh, NC
Mills, Allen G.	SO		130 Cox Ave.		626 Jersey Ave., Winston-Salem, NC
Mills, Carl F.	JR	3347	215 Bagwell	Te-2-9131	Chinquapin, NC
Mills, Harold Lee	FR	4404	107 Owen	Te-2-9437	Rt. 1, Box 85, Grantsboro, NC
Mills, Jesse R.	JR			Va-8-5053	2017 Fairview Rd., Raleigh, NC
Mills, Joseph I., Jr.	JR				931 Tower St., Raleigh, NC
Mills, Kenneth E.	FR	3007	107 Watauga	Te-2-9447	527 Park Terr., Greensboro, NC
Mills, Leonard E.	FR			Te-4-1100	Rt. 4, Macedonia Rd., Raleigh, NC
Mills, Milton K.	FR	15396	418-A Bragaw	Te-4-9754	1421 N. Main St., Mooresville, NC
Mills, Norman S.	GR		M-22 Married Stu. Ho.		
Mills, Robert N.	SO	3254	206 Welch	Te-2-9119	Box 126, Aurora, NC
Mills, Wade T.	SR		7 Enterprise St.	Te-4-0435	Rt. 2, Box 82, Farmville, NC
Millsaps, Stephen W.	FR	4814	64 Tucker	Te-2-9237	Rt. 1, Story Point, NC
Milton, David F.	SO	4693	222 Tucker	Te-2-9387	Rt. 1, Box 190, Lillington, NC
Milton, Yates	JR			Va-8-3272	516 Shelden Dr., Raleigh, NC
Minish, William M.	GR			Te-3-1692	1009 Fuller St., Raleigh, NC
Mink, Lawrence A.	SR		808 Rosemont	Va-8-2830	Rt. 1, Winston-Salem, NC
Mintz, Morris D.	SR		Rt. 7, Box 110, Ral.		4908 W'ville Ave., Wilmington, NC
Misenheimer, Lester E.	FR	4236	205 Turlington	Te-2-9297	Box 237, Faith, NC
Misiali, Ismail Suleyman	FR		117 Forest Rd.		N. Santos, Akkaurk Sok. 11/4, Istanbul, Turkey
Mitchell, Barre R.	JR	4646	136 Tucker	Te-2-9388	2724 Vanboren St., Wilmington, NC
Mitchell, Don N.	SO	3612	16 Syme	Te-2-9421	837 Glencoe Rd., Durham, NC
Mitchell, George C., III	SO	15199	423-B Bragaw	Va-93871	Fairfield Cir., Dunn, NC
Mitchell, John B., Jr.	FR	3753	219 Becton	Te-2-9334	Box 57, Fletcher, NC
Mitchell, Margaret E.					Box 3014, Duke Univ. Hosp., Durham, NC
Mitchell, Paul B., Jr.	SO		325 Shepard St.	Te-4-1289	2008 West Rd., Kinston, NC
Mitchell, Ralph E.	FR	4661	154 Tucker	Te-2-9388	Germanton, NC
Mitchell, William B.	FR	3335	203 Bagwell	Te-2-9131	210 Coke Ave., Charlotte, NC
Mitchell, William L.	SO			Te-3-6618	1808 Bickett Blvd., Raleigh, NC
Mitchelle, Wiley E.	SO	4322	302 Berry	Te-2-9363	133 Southland, Danville, Va.
Mitchem, Terry K.	SO	3225	301 Gold	Te-2-9263	Rt. 2, Lincolnton, NC
Mitchiner, Hugh L.		3010	110 Watauga	Te-2-9447	Rt. 1, Garner, NC
Mitchiner, David M.	SR			Em-2-9773	Garner, NC
Miura, Takeshi	GR		54 Dixie D.		1504 Hokaki, Takata, Hiroshima
Mizell, John T., Jr.	GR	4740	307 Tucker	Te-2-9323	Palmyra, NC
Mock, George F.	SR			Va-8-6755	R-1 Country Club Homes, Raleigh, NC
Mock, John D.	JR	15306	226-A Bragaw	Te-4-9123	Boonville, NC
Myrick, Alvin G.	JR		516 Phelps Ave.	Te-4-4027	Rt. 1, Littleton, NC
Mock, Willie, Jr.	JR		829-D Daniels St.	Te-3-3515	3504 Sharon Rd., Greensboro, NC
Modlin, Arthur Lee	SO	3034	216 Watauga	Te-2-9132	Jamesville, NC
Moffitt, Arthur B.	FR	4525	308 Owen	Te-4-9300	Rt. 1, Staley, NC
Moffitt, James S.	SR		1408 Hillsboro	Te-2-5745	Ferndale Dr., High Point, NC
Moffitt, Roy B.					
Molina, Mariano	JR		201 1/2 Park Ave.		326 Julio Sanguily, Camaguey, Cuba
Monday, David E.	FR	4477	222 Owen	Te-2-9252	Rt. 2, Bostic, NC
Moneyham, Edgar J.	FR	4489	235 Owen	Te-2-9252	503 Longview Dr., Fayetteville, NC
Monk, Ralph B.	SO	3559	227 Syme	Te-2-9150	Rt. 3, Roxboro, NC
Monroe, James E.	JR	15390	414-D Bragaw	Te-4-9754	Box 3, Laurel Hill, NC
Montgomery, Carl E.	JR	3028	3028 Leonard St.	Te-2-9763	Raleigh, NC
Montgomery, Don B.					
Moon, Seung Gyu		5428	State Col. Stat.		248 Madong, Iri, Korea
Mooney, Jesse W.	FR	4367	22 Stadium		RFD, Roxboro, NC
Moore, Alexander R.	FR			Te-2-3101	2315 Byrd, Raleigh, NC
Moore, Augustus B., Jr.	FR		933 Tower	Te-4-3302	Rt. 2, Matthews, NC
Moore, Charles J.	JR		Q-207 Married Stu. Ho.		Boyotte St., Hamlet, NC
Moore, Collice Clyde	JR	4630	119 Tucker	Te-2-9380	Rt. 3, Littleton, NC
Moore, Eugene A.	FR	3365	233 Bagwell	Te-2-9131	Rt. 1, Box 193-A, Cleveland, NC
Moore, George A., III	SO			Te-2-4336	Fartin Rd., Raleigh, NC
Moore, Gerald N.	SO	15383	412-A Bragaw	Te-4-9754	1821 McGougaw Rd., Fayetteville, NC
Moore, Glenn A.	FR	4467	210 Owen	Te-2-9252	Rt. 6, Statesville, NC
Moore, Harry B., Jr.					5128 Wickham Rd., Raleigh, NC
Moore, Jack D., Jr.	SR	5171	4700 Hillsboro	Te-2-9763	304 Hazel St., Waynesville, NC
Moore, James R.	SO		2514 Clark		Star Rt., Catawba, NC
Moore, John L.	JR		125 Cox Ave.		115 Breezemont St., Waynesville, NC
Moore, Johnny E.	SO			Te-4-5211	Rt. 4, Box 940, Clinton, NC
Moore, Joseph L., Jr.	FR	4454	163 Owen	Te-2-9473	2713 Riddick Dr., Raleigh, NC
Moore, Joseph R.	UN	10221	2226 Hillsboro	Te-4-7546	P.O. Box 10221, Raleigh, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Moore, Julius G.	JR		Owen		N. Magnolia, Raeford, NC
Moore, Lawrence C., Jr.	FR		308 Horne St.	Te-2-7050	551 Londonberry Rd., Atlanta 5, Ga.
Moore, Michael K.	SR	4799	49 Tucker	Te-2-9186	Rt. 1, Sylva, NC
Moore, Richard A.	SO	4540	325 Owen	Te-4-9300	Rt. 1, Aulander, NC
Moore, Richard H.	FR	4682	209 Tucker	Te-4-9828	F.O. Box 7, Spring Lake, NC
Moore, Robert B.	SR			Te-4-1559	Rt. 1, Box 164, Raleigh, NC
Moore, Robert C.	SR			Te-2-7743	Box 612, Drexel, NC
Moore, Roger C.		15299	222-B Bragaw	Te-4-9123	Mosby Ave., Littleton, NC
Moore, Sheppard N.	GR	15176	411-D Bragaw	Te-4-9757	Rt. 2, New Bern, NC
Moore, Thomas B.	SO			Te-2-3101	2315 Byrd St., Raleigh, NC
Moore, Thomas M.	SR		127 W. Park Dr.	Te-3-0697	700 Packard Ave., Kannapolis, NC
Moore, William E.	FR	4235	204 Turlington	Te-2-9192	P.O. Box 2, Moncure, NC
Moore, William Ernest	JR		8 Ferndale La.	Te-2-1755	Rt. 1, Acme, NC
Mooring, Luby Edward	GR		308 Horne St.	Te-2-7050	306 Paschall Ave., Stantonburg, NC
Morau, David H.	SR	3213	201 Gold	Te-2-9263	305 S. Broadway, Natchez, Miss.
Moresdith, Frederick La.	GR			Va-8-3028	100 Horne St., Raleigh, NC
Morhaed, Julian L., Jr.	FR	3775	307 Becton	Te-2-9372	367 Edgewood Rd., Shelby, NC
Moretz, George A.	FR	3356	224 Bagwell	Te-2-9131	1413 6th St., M.W., Hickory, NC
Moretz, James Allen	JR		2211 Hope St.		Box 218, Conover, NC
Moretz, Ralph Dale, Jr.	SO	4167	301 Alexander	Te-29349	Deep Gap, NC
Morgan, David F., Jr.	FR	4114	117 Alexander	Te-2-9257	1104 Crescent Dr., Monroe, NC
Morgan, Donald E.	FR	4664	157 Tucker	Te-2-9388	2331 Glendale, Durham, NC
Morgan, Donald O.				Te-3-5600	4201 Reavis Rd., Raleigh, NC
Morgan, Earl M.	SR	15001	101- A Bragaw	Te-2-9129	Poplar St., Bading, NC
Morgan, Fletcher P., III	FR		1232 Bickett Rd.	Va-8-3562	232 Cottage Pl., Charlotte, NC
Morgan, James A.	FR	4234	203 Turlington	Te-2-9297	233 Cherokee Rd., Pittsburgh 34, Pa.
Morgan, Karen I.	SO		807 Beaver Dam Rd.	Te-2-7668	419 Parkridge Dr., Pittsburgh 35, Pa.
Morgan, Richard M.	SO	3033	215 Watauga	Te-4-9123	11 Woodley, Asheville, NC
Morgan, William J.	SO	15267	206-A Bragaw	Te-4-9123	115 Richlands Ave., Jacksonville, NC
Morog, Joseph V.	PROF			Te-4-7560	911 Debot St., Raleigh, NC
Morris, Clair E.	GR		2715-A Kilgore Ave.	Va-8-9645	RFD 2, Box 114, Columbia, NC
Morris, Edwin E.	SO		201 Ashe Ave.	Te-4-8066	Rt. 4, Windsor, NC
Morris, Francis J.	JR		201 Ashe Ave.	Te-4-8066	Rt. 4, Windsor, NC
Morris, Harold L.	JR	4114	117 Alexander	Te-2-9257	108 Gillespie Cir., Brevard, NC
Morris, Jack C.	FR	4779	352 Tucker	Te-2-9323	717 West Ave., Wadesboro, NC
Morris, James A.	FR	3301	101 Bagwell	Te-4-9129	Rt. 1, Box 188, Columbia, NC
Morris, John Thomas	SO		2310 Hillsboro	Te-3-0954	600 Stuart Rd., Galax, Va.
Morris, Robert H.	JR		2713 Vanderbilt Ave.		4414 Major St., Charlotte, NC
Morris, Walter W., III	JR	15146	323-B Bragaw	Te-4-9179	615 Burch Ave., Durham, NC
Morris, Wayne B.	SR	15237	116-C Bragaw	Te-2-9180	Rt. 2, Apex, NC
Morris, Zoble Rice	JR	3307	107 Bagwell	Te-4-9219	215 Academy St., Ahoskie, NC
Morrison, James D.	SO	4640	129 Tucker	Te-2-9387	4 Holmwood Rd., Asheville, NC
Morrison, James O.	JR		131 Hawthorne Rd.		Southern Pines, NC
Morrison, James P.	FR	3532	132 Syme	Te-2-9288	Rt. 4, Concord, NC
Morrison, James Thomas, Jr.	FR	3733	133 Becton	Te-2-9256	2 Garden Terr., Asheville, NC
Morrison, Phillip H.	SO	3265	325 Welch	Te-2-9119	109 Waight Avr., Lenoir, NC
Morrison, Roger A.	JR	5667	1620 Hillsboro	Va-8-3323	6311 Nations Ford Rd., Charlotte 9, NC
Morrison, William O., Jr.	SR	5665	2514 Clark	Te-3-4522	113 Highland, Burlington, NC
Morrow, James K.	SO	3265	305 Welch	Te-2-9119	128 W. 12th St., Washington, NC
Morrow, Robert A.	GR		2421 Beechridge Rd.	Te-3-5267	500 S. Hayne St., Monroe, NC
Morrow, Samuel H.	SO	3713	113 Becton	Te-2-9256	Rt. 6, Box 130, Statesville, NC
Morse, Michael T.	JR			Te-4-3390	406 Guilford Cir., Raleigh, NC
Morton, Bob S.	GR				100 Cross St., Burlington, NC
Morton, Don R.	SO		2004 Hillsboro		2205 Pinecroft, Greensboro, NC
Morton, Harmon L.	SO	5566		Te-4-8227	1928 Independence Blvd., Charlotte, NC
Morton, Joseph K.	FR	15263	204-A Bragaw	Te-4-9123	2124 Fort Henry Dr., Kingsport, Tenn.
Morton, Leven E.	FR	3503	103 Syme	Te-2-9288	1325 Winslow Ave., Asheville, NC
Morton, Marion H., Jr.	PROF		1914 Smallwood Dr.	Te-4-6852	227 N. 4th St., Albemarle, NC
Morton, Ralph Lee	FR	4699	228 Tucker	Te-2-9387	Rt. 2, Jacksonville, NC
Moser, William R., Jr.	FR	3113	103 Fourth	Te-2-9159	2813 Roland Rd., Greensboro, NC
Mosley, Jerry W.	SO	4588	54 Owen	Te-2-9142	Rt. 1, Box 331, Rocky Mt., NC
Mosley, Julian D.	SR			Va-8-6168	1217 Kent Rd., Raleigh, NC
Moss, Alfred W.	FR	4511	260 Owen	Te-2-9252	140 S. Laurel Ave., Charlotte, NC
Moss, Claude W.	GR		520 Mial St.	Te-4-2303	Rt. 1, Rural Hall, NC
Moss, Francis T.	FR	15045	125-A Bragaw	Te-2-9129	1917 Morganton Rd., Fayetteville, NC
Moss, James R.	GR		1709 Hillsboro	Te-3-6901	435 W. Lexington Ave., High Point, NC
Moss, Marvin K.	SR		3320 Rock Creek Dr.	Te-4-4872	912 N. Main St., Burlington, NC
Moss, Ronald L.	SR		711 Boylan Dr.	Te-2-1490	Cullowhee, NC
Motley, John M.	SR	3710	110 Becton	Te-2-9256	1104 W. Webb Ave., Burlington, NC
Motsuneyane, Samuel M.	SO	3028	210 Watauga	Te-2-9132	625 Dube Village, Johannesburg, S. Africa
Mowery, Alfred L., Jr.	GR		3014 Lewis Farm Rd.	Te-4-4518	Raleigh, NC
Mowery, Donald F.	FR	4580	45 Owen	Te-2-9142	923 S. Caldwell St., Salisbury, NC
Moye, Howard D., Jr.	FR	3824	23 Becton	Te-2-9261	Horne Ave., Farmville, NC
Moyle, La Mont E.	JR	4192	329 Alexander	Te-2-9349	Stewartsville, NJ
Mozingo, Kenneth D.	SO	15039	123-C Bragaw	Te-2-9129	Burgaw, NC
Mozingo, Roger Lee	SR	3040	304 Watauga	Te-2-9488	Rt. 1, Box 50, Snow Hill, NC
Mozingo, Roy W.	SO	15036	119-B Bragaw	Te-2-9129	Rt. 1, Kenly, NC
Mozingo, Wilbur E., Jr.	SR		100 Horne St.	Te-4-4691	401 Greenmead Dr., Kinston, NC
Muehlbauer, Anton Frank	JR	15069	211-A Bragaw	Te-2-9185	781 Ave. 2, Brooklyn, 35, NY
Mulchi, Charles Lee	FR	4451	160 Owen	Te-2-9115	Rt. 1, Box 44, Morlina, NC
Mill, William H.	FR	15066	209-B Bragaw	Te-2-9185	10 Lenox Ct., Asheville, NC
Millen, Bruce E.	FR	3810	8 Becton	Te-2-9261	39 Lakeshore Dr., Asheville, NC
Millis, Harry E.	SR		130 woodburn	Va-8-6702	Pinecrest Ave., Reidsville, NC
Millis, Ralph H.	JR		25 Logan Ct.	Te-4-1547	Olin, NC
Mumford, Ray H.	SO	3390	324 Bagwell	Te-4-9151	380 W. Del. Ave., So. Fines, NC
Munden, Pentress H.	SO	15359	326-A Bragaw	Te-4-9253	Rt. 4, Elizabeth City, NC
Muneyirci, Suphi	SR	5693	2601 Clark	Te-2-8631	Napah Carsi, Ucuoglu No. 25, Istanbul, Turkey
Munns, Michael H.	FR			Te-4-2504	2808 Claremont Rd., Raleigh, NC
Munroe, Allen P.	FR	4688	217 Tucker	Te-4-9828	Lyn Mar Hills, Morrisown, Tenn.

NAME	TR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Marchison, Eddie G.	FR	4647	137 Tucker	Te-2-9388	Rt. 2, Liberty, NC
Marchison, Mardoc B.	SR			Te-2-8594	2707 Clark Ave., Raleigh, NC
Marchison, William					
Murphy, Leroy P.	JR			Te-4-8368	802 W. South St., Raleigh, NC
Murphy, Roger W.	SO	3543	311 Syme	Te-2-9150	Box 65, Summerfield, NC
Murray, Harry L.	FR	3304	104 Bagwell	Te-4-9219	5022 Milford Rd., Charlotte, NC
Murray, James E.	FR		M-24 Married Stu. Ho.	Te-2-3036	3211 Sussex Rd., Raleigh, NC
Murray, James Fredrick, Jr.	FR	3371	305 Bagwell	Te-4-9151	2303 Belvedere Dr., Wilmington, NC
Mustian, Robert D.	JR	3601	5 Syme	Te-2-9421	Box 84, Kittrell, NC
Myers, Donald L.	SR	1001	1001 Barbara, Garner	Em-2-9531	
Myers, Doyle C.					
Myers, Edwin C.	SR		719 Chamberlain	Te-4-9680	3 W. Mt. Ida. Ave., Alexandria, Va.
Myers, Guy A., Jr.	GR	15225	108-C Bragaw	Te-2-9180	2546 Reynolda Rd., Winston-Salem, NC
Myers, James B.	FR	4727	260 Tucker	Te-2-9387	312 Maegee Dr., Lexington, NC
Myers, Jesse W.	SO	4762	331 Tucker	Te-2-9323	Rt. 1, Box 396-B, McLeansville, NC
Myers, Kenneth R.	SO	5667	1509 Hillsboro	Te-2-9531	334 Overbrook Rd., Baltimore, Md.
Myers, Robert H.	SR		130 Hawthorne Rd	Va-8-3347	530 Park Ave., Piqua, Ohio
Myers, William M.	FR	4156	222 Alexander	Te-4-9746	801 White St., Lexington, NC
Myhre, James B.	SR	4138	207 Alexander	Te-4-9746	505 Hawthorne La., Wilson, NC
Na Lampang, Arwooth	GR		15 Maiden La.		c/o Dept. of Agr., Bangkok, Thailand
Namkoong, Gene	JR		1500 Scales St.	Te-4-8850	3604 Hancock Ave., Gulfport, Miss.
Nance, Richard E.	JR			Te-4-0043	Harden Rd., Rt. 1, Cary, NC
Nance, Walter E.	JR			Te-3-3943	3002 Lewis Farm Rd., Raleigh, NC
Nanzetta, Philip N.	JR		804 Brooklyn St.	Te-2-7368	2756 Windsor Rd., Winston-Salem, NC
Nash, John Lee	JR		E-25 Married Stu. Ho.	Te-4-4428	1819 S. Main St., Salisbury, NC
Nash, Melda Louise	FR		1115 Hillsboro	Te-4-7136	244 Polveyard, High Point, NC
Nash, Samuel A.	FR	4284	322 Turlington	Te-2-9192	1831 S. Main St., Salisbury, NC
Nassar, M. Rida	GR	5342	Alumni Bldg.		
Nassif, Joseph Lee	JR		Q-213 Married Stu. Ho.	Te-4-2194	102 W. Gray St., Wilson, NC
Nau, William H.	FR	4807	57 Tucker	Te-2-9388	217-5th Ave. N.E., Hickory, NC
Nauss, Frank P.	SR			Te-4-4548	1304 1/2 Mordecai Dr., Raleigh, NC
Neal, James Lewis	SR		3109 Hillsboro	Te-4-8037	Providence, NC
Neal, Peyton R., Jr.	SR	5452	State Col. Stat.		227 E. Avondale, Greensboro, NC
Neal, William E.	GR		3151 Stanhope Ave.		RFD 2, Stokesdale, NC
Neal, William T.	JR		6 Enterprise St.	Te-2-4788	39 Robindale, Asheville, NC
Neel, Richard O.	SO	15112	307-A Bragaw	Va-8-5927	Rt. 2, Mooresville, NC
Neighbors, Dalma K.	SO	15012	105-D Bragaw	Te-2-9129	401 W. Main St., Benson, NC
Nelson, David R.	SR			Te-4-2175	12 E. Dixie Dr., Raleigh, NC
Nelson, David W.	JR	15054	203-B Bragaw	Te-2-9185	810 Archdell St., Morehead City, NC
Nelson, Larry W.	FR	3781	313 Becton	Te-2-9372	Rt. 4, Box 604, Lenoir, NC
Nelson, Lawrence A.	GR		5214 Western Blvd.	Te-2-2608	Rt. 1, Council Bluffs, Iowa
Nelson, Lewis H., III	SO	15224	108-B Bragaw	Te-2-9180	48 Anderegg, Rome, NY
Nelson, Melvin, Jr.	SO	4734	301 Tucker	Te-2-9323	Rt. 3, Sanford, NC
Nelson, Ralph M., Jr.	GR		308 Horne St.	Te-2-7050	3 Waverly Rd., Asheville, NC
Nelson, Robert E.	JR	15308	226-C Bragaw	Te-4-9123	119 Rosewood Ave., Baltimore 28, Md.
Nelson, Stephen F.	JR		-115 Hawthorne Rd.		433 Greenwood St., Leaksville, NC
Nemmers, Raymond F.	SO			Te-2-8239	510 Harding St., Raleigh, NC
Nemmers, Robert S.	JR			Te-2-8239	510 Harding St., Raleigh, NC
Nesbitt, William B.	GR		2712 Vanderbilt Ave.	Te-2-1952	Edneyville, NC
Nethercutt, Robert L.	GR		2718 Clark	Te-2-6451	Rt. 1, Snow Hill, NC
Hettleton, Wiley D.	GR			Te-2-0508	2328 McMillan Cir., Raleigh, NC
Neuse, Durwood H.	SR	5744	301-D Boylan Apts.	Te-4-7557	479 Magazine Ave., New Braunfels, Tex
Neville, Atlas Gordon	SR		1-12 Married Stu. Ho.		Rt. 1, Chapel Hill, NC
Neville, Augustus, III	SR	5545	222 Hillcrest Rd.	Te-2-3429	Box 188, Spring Hope, NC
Nevins, Jon Lion	GR		2428 Wade Ave.		1922 M. Monroe St., Little Rock, Ark.
Necomb, Kenneth E.	SO		2512 Clark	Te-2-4843	5526 Wilora Rd., Charlotte, NC
Newell, George F.					1211 Fayetteville, Raleigh, NC
Newland, Russell L., Jr.	FR			Te-3-6644	Scotland St., Raleigh, NC
Newman, Carl L.	JR		1720 Hillsboro	Te-4-0451	101 Glarewill Ave., Montclair, NJ
Newman, James L.	SR		Campus Apt. 6, Durham	80147	Durham, NC
Newman, John G.	FR	3325	125 Bagwell	Te-4-9219	Box 56, Leasburg, NC
Newton, Elbert C.	FR	5545	222 Hillcrest Rd.	Te-2-3429	P.O. Box 54, Clayton, NC
Newton, Jesse Earl	FR				325 E. Horne St., Clayton, NC
Newton, Johnny L., Jr.	FR	3821	20 Becton	Te-2-9261	1430 11th St. N.W., Hickory, NC
Nicely, Kenneth A.	GR		3 Dixie Ave.		Siab Fork, W. Va.
Nichols, Charlie A.	FR	3343	211 Bagwell	Te-2-9131	Rt. 4, Box 275, Mt. Airy, NC
Nichols, Kenneth E.	GR	3231	307 Gold	Te-2-9263	19 Laurel Ave., Charleston, SC
Nichols, Kenneth W.		4413	118 Owen	Te-2-9473	Box 2, Box 116, Marion, NC
Nichols, Lyle A.	SR		216 Hillcrest Rd.	Te-3-4993	Rt. 24, Rt. 6, Wellsboro, Pa.
Nichols, Peter P.	FR	186	Knightdale, NC	Co-6-2555	
Nichols, Ronald A.	JR			Te-3-4351	407 Bickett Blvd., Raleigh, NC
Nichols, Thomas L.	SR	1508	1403 S. Wilm. St.	Te-3-4673	130 Walnut Ave., Spruce Pine, NC
Nichols, William C.	PROF			Va-8-2928	UK-42, Vetsville, Raleigh, NC
Nicholson, Cheyney A.	SO	5095	3112 Eton Rd.	Te-3-4102	Raleigh, NC
Nielson, Clare W.					608 Kirby St., Raleigh, NC
Niemer, Stanford E.	SR		114 Woodburn Rd.	Te-4-2994	3200 Willow Oak Rd., Charlotte, NC
Niewierowski, Stan M.	SR	15002	211-A Bragaw	Te-2-9185	102 Bedford Ave., Brooklyn, NY
Nifong, Charles M.	FR	15369	404-C Bragaw	Te-4-9754	1109 Watson Ave., Winston-Salem, NC
Nifong, Norman Lee	FR	4644	133 Tucker	Te-2-9388	Rt. 4, Winston-Salem, NC
Nixon, John F.	SR		1305 1/2 College Pl.	Te-4-0046	535-B Brooklyn, Cramerton, NC
Nixon, John W.	GR		1008 W. So. St.		Rt. 1, Pilot Mtn, NC
Nixon, Larry D.	SO		2412 Clark	Te-2-4843	366 Elk Spur, Blkin, NC
Noah, High B.	JR			Te-2-3275	1425 Park Dr., Raleigh, NC
Noah, Van B.	JR			Te-2-3275	1425 Park Dr., Raleigh, NC
Noble, Chappell N.	SR		2625 Newbold Rd.	Te-2-4919	Box 84, Fairview, NC
Nobles, Jim T.	FR	4290	328 Turlington	Te-2-9192	Rt.1, Dover, NC
Nobles, Larry	SO	3558	226 Syme	Te-2-9150	Rt. 1, Box 94, Chadburn, NC
Noblitt, Charles G.	GR			Co-6-2889	Rt. 1, Knightdale, NC
Noell, Godwin L.	SO	15141	321-A Bragaw	Te-4-9179	Oxford Orphanage, Oxford, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Noell, William E.	FR			Te-3-2820	2821 Claremont Rd., Raleigh, NC
Noland, James M.	SR	15071	211-C Bragaw	Te-2-9185	506 Oak St., Waynesville, NC
Noles, William Lee, Jr.	FR	3535	203 Syme	Te-2-9150	Rt. 4, Box 520, Salisbury, NC
Nordan, Phillip T.	SO		6 Ferndell La.	Te-2-2256	Rt. 1, Benson, NC
Nordman, Theodore P.	SO	4297	338 Turlington	Te-2-9192	1300 Queen's Rd., W. Charlotte, NC
Norket, David M., Jr.	FR	4532	317 Owen	Te-4-9836	608 Gooden Ferry, South Hill, Va.
Norman, Henry C.	SR		104 Fogue St.	Va-8-2006	Box 452, Robersonville, NC
Norman, Sara E.	FR		8 Maiden La.	Te-4-5089	407 White Oak, High Point, NC
Norman, William F.	FR	4291	329 Turlington	Te-2-9192	2940 Rozzells Ferry Rd., Charlotte, NC
Norris, Jerry G.	FR	4682	209 Tucker	Te-4-9828	P.O. Box 144, Spring Lake, NC
Norton, Jerry Lee	GR		2226 Hillsboro	Te-4-7546	221 Oakcrest Dr., Wilmington, NC
Norville, James D.	SO	15391	414-E Bragaw	Te-4-9754	1005 Western, Rocky Mt., NC
Norwood, Elmer H.	JR	3595	331 Syme	Te-2-9222	8 Oak St., Kings Mtn., NC
Norwood, E. Lonnie, II	JR	15178	413-B Bragaw	Te-4-9757	Rt. 1, Box 207, Mt. Holly, NC
Norwood, Grover C.	SO	4367	22 Stadium		229 S. Laurel Cir., Black Mtn., NC
Norwood, Thomas G.	JR			Va-8-6188	104 Logan Ct., Raleigh, NC
Novell, Talmage E., Jr.					1011 Vance St., Raleigh, NC
Null, Thomas A.	SO	3773	305 Becton	Te-2-9372	Rt. 2, Salisbury, NC
Nunalee, Thomas H. III	SO	1245	600 St. Mary's St.	Te-2-8678	Currie, NC
Nunnery, Joseph R., Jr.		4101	119 Alexander	Te-2-9257	1117 Selano Ave., Wilson, NC
Nye, Joseph D.	SR		1100 Daniels St.	Va-8-9601	AFO 731 c/o F.M., Seattle, Washington
Nye, Thomas A., Jr.	UN	15095	223-D Bragaw	Te-2-9185	308 W. 18th St., Lumberton, NC
Oakley, George David	FR	3741	207 Becton	Te-2-9334	712 Florida Ave., Bristol, Tenn.
Oakley, Thomas Blair				Co-6-2851	Box 42, Knightdale, NC
Oates, Larry A.	FR	3810	8 Becton	Te-2-9261	416 Brooklyn Ave., Hendersonville, NC
Oberhofer, Edward S.	SR	3548	216 Syme	Te-2-9150	495 Iretree Rd., Winston-Salem, NC
O'Brian, Edwin Lee	SR		2004 Hillsboro		Rt. 2, Whitakers, NC
O'Brien, Thomas F., Jr.	SO	4597	63 Owen	Te-2-9142	1509 Ideal Way, Charlotte, NC
O'Brien, William L., Jr.	JR		127 Woodburn Rd.,	Te-3-1841	Raleigh, NC
O'Bryant, Thomas W.	JR	3264	302 Welch	Te-2-9119	Rt. 2, Reidsville, NC
Ocasio, Cabanas W.	GR			Te-4-0233	1863 W. Smallwood Dr., Raleigh, NC
Ockerman, Herbert W.			2140 Mayview Rd.		Burlington, Ky.
O'Connell, James Lee	SR	5276	College YMCA	Te-2-7184	426 Courtland Dr., Sanford, NC
O'Connell, Larry S.	SR		3414 Hillsboro	Te-4-5671	2519 Watson Ave., Sanford, NC
O'Connor, Frederick R.	SO			Te-4-1549	3104 Douglas St., Raleigh, NC
O'Connor, Richard A.	FR		3104 Douglas St.	Te-4-1549	Rt. 4, Box 243, New Bern, NC
Odom, Clyde L.	FR	3357	225 Bagwell	Te-2-9131	Main St., Conway, NC
Odom, James A., Jr.	SR			Te-4-5782	807-C Daniels St., Raleigh, NC
Odom, Terry G.	SO			Va-8-5261	18 Enterprise St., Raleigh, NC
Oehler, Donald L.	FR	4759	328 Tucker	Te-4-9739	Rt. 7, Box 668, Charlotte, NC
Odom, James S.	SO	4632	121 Tucker	Te-2-9367	Box 109, Hubert, NC
Oertel, Eric S.	SR	3401	133 Bagwell	Te-4-9219	24 Alvinen Str., Wiesbaden, Germany
Oertel, Fritz H., Jr.	GR		P-12 Married Stu. Ho.		
Oertel, Neil F.	SR	3003	103 Watauga	Te-2-9447	2513 S. Main St., Winston-Salem, NC
Ogburn, Thomas B.	SO	15055	203-C Bragaw	Te-2-9185	226 Madison St., Roanoke Rapids, NC
O'Hara, Dennis D.	SO	4591	57 Owen	Te-2-9142	Box 236, Linden, NC
O'Hanlon, William H.	SR		118 1/2 Folk St.		Box 975, Fayetteville, NC
O'Hara, George R.	SR	5667	1620 Hillsboro	Te-2-9531	Rt. 4, Box 276, Georgetown, SC
Olive, Sulsey Thomas	GR		1331 Chester Rd.	Te-4-5324	Mt. Gilead, NC
Olive, Ronald Lee	JR		1720 Hillsboro	Te-4-0451	1001 E. 13th St., Lumberton, NC
Olive, Ross M.	JR	4561	350 Owen	Te-4-9836	Rt. 1, Fuquay Springs, NC
Oliver, Calvin C., Jr.	FR	791	Raleigh	Mt-7-2732	Rt. 1, Varina, NC
Oliver, Council W.	FR	4472	217 Owen	Te-2-9410	112 E. John St., Mt. Olive, NC
Oliver, Ronda B.	FR	4414	219 Owen	Te-2-9115	Rt. 6, Box 161, Lenoir, NC
Olsen, James H.	SO	3548	216 Syme	Te-2-9150	Shannon Dr., Winston-Salem, NC
Olson, Harold C.	JR	4340	7 Berry	Te-2-9350	4220 Carmel Acres, Charlotte, NC
Olson, Robert L.	GR		2826 Hillsboro	Va-8-2916	2228 Winter St., Charlotte, NC
Onoro-Cerra, Pedro Raul		5777	35 Dixie Ave.		Carr. 50 #56-41, Barranquilla, Columbia
O'Neal, Frederick B.	FR			Te-2-7398	312 Hudson St., Raleigh, NC
O'Neill, Joseph M.	SR		3059 Farrior Rd.	Te-2-7267	50 Smith St., Ware Shoals, SC
O'Neill, Larry V.	FR	4685	214 Tucker	Te-2-9387	312 Spruce, High Point, NC
Oppenheim, James P.	JR	15303	224-B Bragaw	Te-2-6543	226 S. Canterbury Rd., Charlotte, NC
O'Quinn, George D.					Mamers, NC
O'Quinn, William L.	SR	15155	401-C Bragaw	Te-4-9757	1705 Floyd Ave., Lumberton, NC
Orens, Marcelo M.	GR	3226	302 Gold	Te-2-9263	1866-L Georgia, Manila, Philippines
Ormond, John K., Jr.	SO		2606 Grant Ave.	Te-3-1411	Box 52, Bailey, NC
Ormsby, Ted R.	SR		3414 Hillsboro	Te-4-5671	Laurinburg, NC
Orr, Don L.	SO	15003	101-C Bragaw	Te-2-9129	530 Bracken St., Sanford, NC
Orr, Thomas J.	JR		2712 Bedford Ave.		3025 Selwyn Ave., Charlotte, NC
Osborne, Donald Ray	SO			Va-8-2247	725 King Richard Rd., Raleigh, NC
Osborne, Wiley J.	SR	4316	209 Berry	Te-2-9363	Rt. 3, Box 82, Laurel Springs, NC
Osborne, William J.	FR	3556	224 Syme	Te-2-9150	Rt. 1, Summerville, NC
Osburn, Donald B.	GR				W-16 Married Stu. Ho., Col. Station
Otterby, Donald E.	GR		123 Brooks Ave.	Te-2-8764	Box 46, Rt. 4, Sioux Falls, S.D.
Outlaw, Robert R.	SO			Te-3-1267	1314 Banbury Rd., Raleigh, NC
Outerbridge, Stephen W.	JR		01d Greenhouse		206 Wildcrest Rd., Raleigh, NC
Overy, Rufus D.	SO	4235	204 Turlington	Te-2-9297	Moncure, NC
Overcash, Herman A., Jr.	FR	4244	216 Turlington	Te-2-9297	Rt. 11, Box 74, Charlotte, NC
Overcash, Oscar L.	SO	4586	52 Owen	Te-2-9142	Rt. 2, China Grove, NC
Overman, Allen Ray	JR		1214 College Pl.	Te-3-3929	RFD 2, Fikeville, NC
Overman, Bruce H., Jr.	SO	3708	108 Becton	Te-2-9256	119 Welver, Greensboro, NC
Overman, Elliott G.	FR		Delta Dr.		1117 Rivershore Rd., Elizabeth City, NC
Overman, Jack F.	JR	15202	425-A Bragaw	Te-4-9757	Yeopim, Blanton, NC
Overstreet, Robert L., Jr.					Rt. 4, Burlington, NC
Overton, John C., Jr.	SR	4557	345 Owen	Te-4-9300	Country Club Rd., Rocky Mt., NC
Overton, Walter S.	GR			Ho-7-9860	803 Normandy, Cary, NC
Overton, William T.	SO	15036	119-D Bragaw	Te-2-9129	Rt. 2, Box 221, Oxford, NC
Owen, Gordon M., Jr.	GR		1501 Benehan St.	Te-4-0271	2405 Clark Ave., Raleigh, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Owenby, Furman D.	FR	4241	213 Turlington	Te-2-9297	Star Rt., Black Mtn., NC
Owens, Andrew W.	JR		325 Shepard St.	Te-4-1289	Rt. 2, Waynesville, NC
Owens, Jasper G.	SO	3534	202 Syme	Te-2-9150	Rt. 1, Box 71, Morganton, NC
Owens, John G.	FR	4647	137 Tucker	Te-2-9388	324 W. Elm, Graham, NC
Owens, Ted A.	SR	5566		Te-4-8227	Rt. 3, Harriman, Tenn.
Owings, Charles W., Jr.	SO	4148	219 Alexander	Te-4-9746	2202 Granville Rd., Greensboro, NC
Oxford, John A.	SR		2618 Wade Ave.	Te-2-7268	Rt. 1, Hudson, NC
Osgur, Necati	JR	5764	State Col. Stat.		Turan Mah. 59, Sokak No. 96, Nazill, Turkey
Padgett, Bobby J.	SO		1720 Hillsboro	Te-4-0451	Forest City, Arlington St., NC
Padgett, Hugh A.	SO	15173	411-A Bragaw	Te-4-9757	913 Harris La., Chattanooga, Tenn.
Page, Donald R.	FR	4660	203 Owen	Te-2-9410	Rt. 2, Rockingham, NC
Page, Earle L.	SO	3612	16 Syme	Te-2-9421	Rt. 1, Morrisville, NC
Page, Edwin F.	FR	4242	214 Turlington	Te-2-9297	105 Westover Dr., Elkin, NC
Page, Frederick C.	FR		2802 Hillsboro	Te-2-0916	W.N.C. San., Black Mtn., NC
Page, James F.	FR		7 Becton	Te-2-9261	Rt. 2, Wilson, NC
Page, Jimmie A.	FR	3809	State Col. Stat.	Te-4-5211	609 S. Taylor St., Rocky Mt., NC
Page, Robert S.	SR	5658	300-C Chamberlain	Te-3-3778	Raleigh, NC
Page, William W.	SO	2609	2609 Clark Ave.	Te-4-1384	Rt. 2, Box 169, Autryville, NC
Pahl, Edward H.	SO		116 1/2 Hawthorne Rd.		111 Cranberry St., Plymouth, NC
Painter, George R.	JR		17 Enterprise		San Carlos 28. Stgo de Cuba, Cuba
Fais, Agustin	SO	5667	State Col. Stat.		Box 527, Huntersville, NC
Fait, James E.	SO				713 E. Franklin St., Raleigh, NC
Fakula, Hallet M.	SO		102 Logan Ct.	Te-3-2040	172 Bidwell, Franklin, NC
Falmer, James E.	SO		230 Owen	Te-2-3089	1423 Richardson, Reidsville, NC
Falmer, Russell N.	FR	4485	103 Chamberlain St.	Te-2-9410	2429 Fairway Dr., Winston-Salem, NC
Falmer, Walter A.	JR		15 Maiden La.	Te-3-0281	1165 G.J. Santos, Obero, Manila, Phil
Famatmat, Lolita R.	SR		114 Woodburn Rd.	Te-4-2994	Eastway Dr., Charlotte, NC
Pappamiliel, Andrew C.	SO	4176	313 Alexander	Te-2-9349	Box 584, Elkin, NC
Pardue, Garland B.	SR		5 Dixie Tr.		P.O. Box 18, Hildebran, NC
Parham, James E.	SO	3729	129 Becton	Te-2-9526	1420 Wiltshire, High Point, NC
Parham, Thomas I.	SR		2609 Clark	Te-4-1384	RFD 1, Oxford, NC
Parham, William G., Jr.	SR		1237 Beacon Lake Dr.	Te-4-9606	Rt. 1, Box 333, Elizabeth City, NC
Park, Donald M.	FR	4544	329 Owen	Te-4-9300	Rockingham Rd., Rockingham, NC
Park, John M.	SR		104 Pogue St.	Va-8-2006	424 Washington Rd., Roanoke Rapids, NC
Parker, Ben T., Jr.	SR		Uk-22 Verville	Va-8-9533	Candler, NC, Rt. 3
Parker, Billy C.	SR	15057	205-A Bragaw	Te-2-9115	3107 Gilmer Ave., Winston-Salem, NC
Parker, David L.	FR	3714	114 Becton	Te-2-9256	710 Candlewood Dr., Kinston, NC
Parker, Douglas C.	FR	3551	131 Syme	Te-2-9288	2021 Wickersham Rd., Charlotte, NC
Parker, George B.	FR	3728	26 Becton	Te-2-9261	1814 Friendly Rd., Greensboro, NC
Parker, James S.	JR	5545	225 Hillcrest Rd.	Te-2-3429	1625 Hoyle St., Gastonia, NC
Parker, John A., Jr.	SR	4578	41 Owen	Te-2-9142	Rt. 1, Box 35, Holliston, NC
Parker, John H.	SR	3562	230 Syme	Te-2-9150	Box 186, Pine Level, NC
Parker, Larry E.	SO	3797	329 Becton	Te-2-9372	1606 Branch St., Rocky Mt., NC
Parker, Raymond W.	SR	5132	State Col. Stat.	Te-2-1664	4417 Cornell Ave., Greensboro, NC
Parker, Robert C.	FR	4545	330 Owen	Te-4-9300	RFD 1, Bunnlevel, NC
Parker, Samuel Max	SO	4134	202 Alexander	Te-4-9746	Rt. 1, Mt. Ulla, NC
Parker, Simon N.	GR			Te-2-6456	716 Nash Dr., Raleigh, NC
Parker, Willis M.	SR			Te-4-4723	414 Guilford Cir., Raleigh, NC
Parkhurst, Robert E.	SO	15261	202-C Bragaw	Te-4-9123	P.O. Box 98, Conover, NC
Parke, Charles E.	SR			Te-2-3563	2303 Yancey St., Raleigh, NC
Parks, Clifford R.	GR		54 Dixie Dr.	Te-4-5644	519 Liberty St., Elmira, NY
Parks, George W.	FR		F-5 Shelton Apts.	Va-8-3851	Red Springs, NC
Parks, Lester C., Jr.	SO	3727	127 Becton	Te-2-9256	605 W. Council, Salisbury, NC
Parks, Richard D.	SR		Rt. 1, Cary, NC		Archdale, NC
Parlier, John F., Jr.	SO	15167	407-C Bragaw	Te-4-9757	Rt. 1, Box 266, Lenoir, NC
Parrell, James F.	GR	15019	109-C Bragaw	Te-2-9129	Smith St., Timmonsville, SC
Parr, Robert D.	GR		N-28 Married Stu. Ho.		503 E., Davis, Calif.
Parran, Benjamin, Jr.	FR	4775	348 Tucker	Te-2-9323	St. Leonard, Md.
Parrish, Billy T.	FR	4289	327 Turlington	Te-2-9192	Rt. 2, Clayton, NC
Parrish, Charles K.	FR	4786	359 Tucker	Te-2-9323	2535 Franklin Rd., Nashville, Tenn.
Parrish, James R.	SR		1428 Jackson St.	Te-4-0423	Box 8, Spring Hope, NC
Parrish, Roy Thomas	FR	4155	226 Alexander	Te-4-9746	311 Spruce, Sanford, NC
Parsons, Tony A.	FR	4729	262 Tucker	Te-2-9387	Rt. 1, Kurelar, NC
Partin, Burke F., Jr.	FR			Te-2-0117	Beavis Rd., Raleigh, NC
Partin, Maurice W.	SO	3811	9 Becton	Te-2-9261	601 E. Highland Ave., Kinston, NC
Paschal, Charles R.	JR		302 Horne St.	Te-4-6125	151 S. Hawthorne, Winston-Salem, NC
Paschal, Robert E.	JR		2512 Clark	Te-2-4843	151 S. Hawthorne, Winston-Salem, NC
Pasour, Harold A.	FR	3376	310 Bagwell	Te-4-9151	Rt. 1, Dallas, NC
Pasa, Herbert L.	FR		3210 1/2 Clark	Va-8-5952	3210 1/2 Clark, Raleigh, NC
Pastoret, James F.	GR			Te-4-5072	521 N. Bloodworth St., Raleigh, NC
Pate, Charles L.	UN	4619	105 Tucker	Te-2-9388	1305 E. Beech, Goldsboro, NC
Pate, Nancy Lee					303 Hawthorne Rd., Raleigh, NC
Fatel, Kokila Kanub	GR		220 Cox Ave.	Te-4-5211	2402 Everett Ave., Raleigh, NC
Fatel, Ramjibhai M.	GR		217 Watauga		Zadeshwar, Broach, Gujarar, India
Faterano, Wallace H.	SO	3035	2906 O'Berry St.	Te-2-9132	Rt. 4, Box 409, Matthews, NC
Patrick, David H.	SO			Te-2-6755	1211 Florida St., Greensboro, NC
Patrick, Jerry H.	SO			Te-2-5741	3425 Wade Ave., Raleigh, NC
Patten, Donald W.	JR		3413 Hillsboro	Va-8-5954	R.D., Faison, NC
Patterson, Donald W.	SO	4699	228 Tucker	Te-2-9387	Rt. 3, Box 294, Concord, NC
Patterson, Melvin L.	SO	3315	115 Bagwell	Te-4-9219	214 Ridgecrest Rd., Thomasville, NC
Patterson, Reid B.	JR	3134	308 Fourth	Te-2-9159	132 Circle Dr., Salisbury, NC
Patterson, Richard C.	JR		Rt. 4	Te-3-0280	Box 467, Sanford, NC
Patterson, Robert F.	SR		521 1/2 Western Blvd.	Te-2-2608	Rt. 5, Box 657, Hickory, NC
Paul, Donald R.	SR	15212	102-B Bragaw	Te-2-9180	Box 134, Bath, NC
Paul, John D.	FR	4177	314 Alexander	Te-2-9349	Front St., Belhaven, NC
Paul, John R.	GR	3223	211 Gold	Te-2-9263	2312 Fernwood, Lansing, Mich.
Paul, Nicholas L.	SR		2718 Clark	Te-2-6451	Fantego, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Paul, Robert C.					
Paulk, John I.	GR		1903 Cameron St.	Te-4-4252	Lawrenceburg, Tenn.
Pavagadhi, Lalji J.	GR	5806	State Col. Stat.	Te-3-4633	Bedi-gati, Rajkot, Bombay, India
Payne, Billy F.	SR		1600 $\frac{1}{2}$ Brooks Ave.	Te-4-3348	Walnut, NC
Payne, David J.	SR	4497	245 Owen	Te-2-9252	201 Lewis St., Greenville, NC
Payne, Richard E.	JR	195	Rt. 1, Cary	Te-4-0976	Rt. 3, Lexington, NC
Payne, Richard S.	FR	4293	331 Turlington	Te-2-9192	340 Montrose Ave., Baltimore, Md.
Payne, Robert B.	JR	71	Mendenhall Tr. Ct.		735 E. Sprague, Winston-Salem, NC
Payne, Willie L.	GR			Va-8-3346	UK-33, Vetsville, Raleigh, NC
Peabody, William R.	FR			Te-2-1085	900 Lake Boone Tr., Raleigh, NC
Peacock, John F.	SO	4416	121 Owen	Te-2-9473	Box 426, Weaverville, NC
Peacock, Joseph T.	SO	3375	309 Bagwell	Te-4-9151	Dock, Fremont, NC
Pearce, Benny M.	SO	3580	316 Syme	Te-2-9222	307 N. 4th St., St. Pauls, NC
Pearce, Robert G., Jr.	GR	15157	403-A Bragaw	Te-4-9757	224 Virginia Ave., Henderson, NC
Pearson, Albert K., Jr.	JR			Te-2-2107	304 Aycock St., Raleigh, NC
Pearson, Joseph T., Jr.	GR			Va-8-5081	1510 Hanover St., Raleigh, NC
Pearson, Kenneth C.	SO	3594	330 Syme	Te-2-9222	1204 Walnut, Goldsboro, NC
Pearson, Louis A.	SO			He-3-1658	2063 Osceola Dr., Fayetteville, NC
Peed, John C.	JR	3812	10 Becton	Te-2-9261	Church St., Creedmoor, NC
Peed, Wallace L.	SO	3324	124 Bagwell	Te-4-9219	Rt. 1, Creedmoor, NC
Peedin, Gerald F.	FR	4160	231 Alexander	Te-4-9746	RFD 3, Selma, NC
Peek, Robert L.	SO			Va-8-5584	4926 Brookhaven, Raleigh, NC
Peeler, David L.	SO	4404	107 Owen	Te-2-9473	108 Linden, Plymouth, NC
Peeler, Paul F.	JR		130 Woodburn		3721 Wilkinson Blvd, Charlotte, NC
Peeler, William H.	SR		30 $\frac{1}{2}$ Brooks Ave.		104 W. 3rd St., Plymouth, NC
Peeler, William R., Jr.	SR				112 O'Neil St., Clayton, NC
Peeler, Donald H.	SO	15096	225-A Bragaw	Te-2-9185	Rt. 1, Lincolnton, NC
Pegram, James D.	JR	4301	101 Berry		322 Apple, Burlington, NC
Peiffer, Peter W.	FR	4810	60 Tucker	Te-2-9237	64 Hopper Terr., Rochester, NY
Pender, Lorenzo D.	FR			Te-2-3152	Rt. 6, Raleigh, NC
Pendergraft, Garrieth B.	JR	4630	119 Tucker	Te-2-9388	633 Long St., Albemarle, NC
Pendergraft, Odis Charles, Jr.	JR	3205	105 Gold	Te-2-9263	811 Old Pittsboro Rd., Chapel Hill, NC
Penley, Joe H.	FR	4127	133 Alexander	Te-2-9257	Rt. 1, Salisbury, NC
Penney, Albert C.	GR		1709 Hillsboro	T3-3-6901	Box 277, Kenansville, NC
Pennock, Caleb M., Jr.	JR		2720 Bedford Ave.	Va-8-3011	413 Fayette Ave., Richmond, Va.
Pepe, Robert A.	SR			Te-3-0703	908 Marlborough Rd., Raleigh, NC
Perdus, Maurice J.					1321 Dale St., Raleigh, NC
Perkins, Donald F.	FR	3202	102 Gold	Te-2-9263	1122 Davis St., Jacksonville, NC
Perkins, George R.	FR	2488	526 Turlington	Te-2-9192	Rt. 2, Roxboro, NC
Perkins, Jerry C.	SO	4458	261 Owen	Te-2-9410	Rt. 6, Sanford, NC
Perkins, Lewis H., Jr.	SO	4811	61 Tucker	Te-2-9186	Galesville, NC
Perkinson, Richard T.	SO	15055	203-C Bragaw	Te-2-9185	338 Jefferson St., Roanoke Rapids, NC
Perkinson, William D.	JR	4297	338 Turlington	Te-2-9192	Norlina, NC
Perrar, John F.	FR	4668	161 Tucker	Te-2-9367	1606 Cobb St., Greensboro, NC
Perry, Adger Ray	SR	4617	101 Tucker	Te-2-9388	Rt. 11, Box 492, Charlotte, NC
Perry, Astor	GR		1201 Powell Dr.	Te-3-1046	Roun Mountain, Tenn.
Perry, Bobby A.	SR	601	61 Sasser St.	Te-3-0777	Raleigh, NC
Perry, Clifford B.	SO	15389	414-C Bragaw	Te-4-9754	1 Cornwells Rd., Chapel Hill, NC
Perry, Douglas L.			3151 Stanhope Ave.		Rt. 4, Zebulon, NC
Perry, Georgey R.	FR	3524	124 Syme	Te-2-9288	P.O. Box 644, Hickory, NC
Perry, Glenn G., Jr.	FR	15028	115-D Bragaw	Te-2-9129	702 Sunset Dr., High Point, NC
Perry, Jesse B.	SR		E-24 Harried Stu. Ho.		Rt. 1, Hertford, NC
Perry, Joel Von	GR			Te-4-7631	1900 Ridge Rd., Raleigh, NC
Perry, Lynn M.	JR		3414 Hillsboro	Te-3-4808	318 Weatherspoon, Sanford, NC
Perry, Wesley E.				An-9-4770	RFD 3, Zebulon, NC
Perry, Wesley S.	SR			Te-4-3804	220 Derwy La., Raleigh, NC
Perry, William H.	SO	15334	314-A Bragaw	Te-4-9253	Rt. 6, Box 306, Fayetteville, NC
Perry, William Howard, Jr.	FR	3539	207 Syme	Te-2-9288	1601 Delaware Ave., Durham, NC
Perryman, Kaye F.	SO		106 Horne St.	Te-3-2009	Rt. 4, Box 169, Lexington, NC
Person, Lee H., Jr.	SR			Te-4-4086	305 Wilmot Dr., Raleigh, NC
Peters, Carl H., Jr.	JR		I-26 Married Stu. Ho.	Te-4-2117	1116 Eastern Ave., Rocky Mt., NC
Peters, Jesse S.	FR	3381	315 Bagwell	Te-4-9151	500 Beacon St., Clinton, NC
Peterson, Billy S.	SR		23-UK Vetsville	Te-4-0847	Rt. 1, Box 45, Delco, NC
Peterson, Frank A.	JR			Te-2-8994	315 Kinsey St., Raleigh, NC
Peterson, Howell L.	JR	4803	53 Tucker	Te-2-9186	Rt. 2, Garland, NC
Peterson, James E.	SR				625 Kirby St., Raleigh, NC
Peterson, Paul D.	GR	15154	401-B Bragaw	Te-4-9757	422 N. Patrick, Leaksville, NC
Peterson, Reid W.	SO	15142	321-B Bragaw	Te-2-9176	Box 697, Burnsville, NC
Pettus, Charles W.	GR	7595	Raleigh		Rt. 4, Durham, NC
Petty, Harold G.	FR		1508 Hillsboro	Te-2-6153	111 Vance St., Sanford, NC
Petty, Robert H.	FR			Va-8-2945	314 Bickett Blvd., Raleigh, NC
Petty, Vernon E.	FR	3508	108 Syme	Te-2-9288	Rt. 3, Hillsboro, NC
Pettyjohn, James D.	GR		606 Dixie Tr.	Te-4-5011	Kincaid, Kansas
Phelps, Albert C.	SR	5566		Te-4-8227	2920 Orlando Dr., Sanford, Fla.
Phelps, Lewis M., Jr.	SO	3337	205 Bagwell	Te-2-9131	600 S. Clyde, Wilson, NC
Phelps, John Y.	UN			Va-8-5849	Rt. 6, Raleigh, NC
Phelps, Ronald A.	JR	4321	301 Berry	Te-2-9363	802 Kenmore Ave., Louisburg, NC
Phelps, Marion R.	SR		115 Hawthorne Rd.		P.O. Box 132, Lillington, NC
Phifer, Arthur G.	SR		2622 Bedford Ave.		217 E. Sumter, Shelby, NC
Phifer, Billy Jack, Jr.	JR	3244	108 Welch	Te-2-9119	401 E. Chestnut, Goldsboro, NC
Philbeck, Richard W.	JR		849 Bryan St.	Te-2-8278	RFD 3, Hickory, NC
Philbrick, Charles	JR			Te-4-8921	4910 Western Blvd., Raleigh, NC
Phillips, Archie C.	SR			Va-8-6747	Rt. 1, Box 71, Cary, NC
Phillips, Earl J.	SO	15331	312-B Bragaw	Te-4-9253	220 N. 3rd St., St. Pauls, NC
Phillips, Howard L., Jr.	FR		F-15 Married Stu. Ho.		Box 297, Henrietta, NC
Phillips, James A.	FR	361-A	Rt. 1, Cary	Ho-7-3248	Box 745, Spruce Pine, NC
Phillips, James D.	FR	4454	163 Owen	Te-2-9115	2205 Woughton, Winston-Salem, NC
Phillips, Larry S.	SO	15661	207-A Bragaw	Te-2-9185	Rt. 1, Hickory, NC
Phillips, Maurice B.	FR	4223	126 Turlington	Te-4-9279	Box 230, N. Wilkesboro, NC

NAME	YR	BOX	COLLAGE ADDRESS	TELEPHONE	HOME ADDRESS
Phillips, Monroe H., Jr.	FR	3370	304 Bagwell	Te-4-9151	617 Rauhst St., Burlington, NC
Phillips, Philip H.	SR	3570	306 Syme	Te-2-9222	Rt. 1, Box 154-A, Hertford, NC
Phillips, Raymond W.	SO	4306	106 Berry	Te-2-9363	45333 N. Tryon St., Charlotte, NC
Phillips, Raymond D.	SO	4154	225 Alexander	Te-4-9745	Box 197, Pinelevel, NC
Phillips, Richard B.	FR	3808	6 Becton	Te-2-9261	2729 Webb St., Raleigh, NC
Phillips, Robert L.					2830½ Mayview Rd., Raleigh, NC
Phillips, Seymour P., Jr.	JR	15248	118-B Bragaw	Te-2-9180	4826 Steamtown Dr., Greensboro, NC
Phillips, Terry N.	SO	15068	209-D Bragaw	Te-2-9185	851 Knollwood St., Winston-Salem, NC
Phillips, Theodore D.	JR		Q-301 Married Stu. Ho.		P.O. Box 332, Morehead City, NC
Phillips, Wayne W.	SR		3903 Aventura Ferry Rd.	Va-8-5224	Rt. 2, Snow Hill, NC
Phipps, Joe	SR		604 S. Boylan Ave.		Crumpler, NC
Phthisic, Robert M.	FR	4739	306 Tucker	Te-2-9387	Tyner, NC
Pickard, Paison W.	FR	15161	405-A Bragaw	Va-8-6547	Rt. 1, Box 596, Salisbury, NC
Pickering, George H.	FR	10834	104 Whitaker Mill Rd.	Te-2-0279	99 Creekwood, Mentor, Ohio
Pickett, Victor A.	SR			Te-3-6576	105 Montgomery St., Raleigh, NC
Pickler, William Lee.	FR	3742	208 Becton	Te-2-9334	Rt. 1, New London, NC
Pierce, Blackwell P.					
Pierce, Gerald A.	SR		125 Cox Ave., Apt. 9	Te-3-8985	503 Hayworth Cir., High Point, NC
Pierce, Harold R.	SO	15116	309-A Bragaw	Te-4-9179	7133 Lawyers Rd., Charlotte, NC
Pierce, Hugh B., Jr.					3002 Medlin Dr., Raleigh, NC
Pierce, Ronald D.					1216 Franklin Rd., Raleigh, NC
Pierce, Van A.	SO	4219	122 Turlington	Te-4-9279	Hallsboro, NC
Pierson, James A.	SR	5566		Te-4-8227	McNair Ave., Laurinburg, NC
Pike, Carl L., Jr.	JR			Te-3-7751	214 Myers Ave., Raleigh, NC
Pindell, Robert G.	SO	15123	311-D Bragaw	Te-4-9179	2248 Colony Rd., Charlotte, NC
Pinilla, Carlos J.					
Pinkston, Frederick W., Jr.	FR	3501	101 Syme	Te-2-9288	127 W. Bank St., Salisbury, NC
Pipkin, George D.	JR	3366	234 Bagwell	Te-2-9131	120 W. Main St., Murfreesboro, NC
Pipkin, Calvin C.	SR	5276	12 King Rel. Center	Te-2-9339	706 Sunset Dr., Smithfield, NC
Pique, Rodolfo Enrigne	SO	15131	320-D Bragaw	Te-4-9253	17 #7203 Mnep, Cuba
Pittillo, Fred W.	FR	4774	347 Tucker	Te-2-9323	Rt. 1, Box 80, Hendersonville, NC
Pitte, Eddie Joe	FR	4152	223 Alexander	Te-4-9746	Rt. 2, Bailey, NC
Plasky, John G.	FR	3207	107 Becton	Te-2-9256	Box 2, Whiteville, NC
Plaster, Arthur W.	FR	3133	307 Fourth	Te-2-9159	111 Fox St., Morganton, NC
Platschek, Carlos G.	SR	5062	State Col. Stat.		Soriano 1085, Montevideo, Uruguay
Pleasant, John Lee	FR	205	Cary, NC	Ho-7-4042	Cary, NC
Flemmons, Tommy R.	SR	15253	124-C Bragaw	Te-4-9180	96 Olney Rd., Asheville, NC
Pless, Robert E.	SR		1507 Ambleside Dr.	Va-8-5335	137 Pisgah Dr., Canton, NC
Plonk, David T.	SO	15353	322-C Bragaw	Te-4-9253	906 Crescent Cir., Kings Mtn., NC
Plonk, Wray A., Jr.	FR	4287	325 Turlington	Te-2-9192	Rt. 3, Kings Mtn., NC
Plott, Glenn C.			1508 Hillsboro	Te-2-6153	768 S. Union, Concord, NC
Plunkett, Richard B., II	GR		807 W. Lenoir St.		2643 Rettig Rd., Richmond, Va.
Pohlkotte, Robert H.	JR			Te-4-8384	2419 Greenway Ave., Raleigh, NC
Poindexter, David C.	FR	3761	227 Becton	Te-2-9335	123 Endsley Ave., Winston-Salem, NC
Poindexter, Richard C.	FR	4470	215 Owen	Te-2-9410	Rt. 1, East Bend, NC
Polan, Carl E.	GR		1508 Frank St.		Blandville, W. Va.
Foley, Paul W.	SR	5665	2514 Clark	Te-3-4522	2018 Brandon Cir., Charlotte, NC
Follock, Charles B.	JR		2512 Clark	Te-2-4843	Rt. 2, Box 376-B, Clinton, NC
Follock, Louie E., Jr.	FR	5667	1620 Hillsboro	Te-2-9531	Independent, Kinston, NC
Fomeranz, Jacques G.	FR	4667	160 Tucker	Te-2-9388	548 N. Brookside Ave., Freeport, NC
Fonder, Lawrence M.	SR		1718 Hillsboro	Va-8-4464	Rt. 1, Marshall, NC
Fons, Richard G.	SR				3106 Leonard St., Raleigh, NC
Foole, Barbara L.	GR			Te-2-1266	1312 Dixie Tr., Raleigh, NC
Foole, Marion R.	GR		2305 Yancey St.	Te-3-0782	100 Howard St., Thomasville, NC
Foole, Robert D.		4278	316 Turlington	Te-2-9192	Rt. 2, Mebane, NC
Foole, Terry W.	FR	4649	139 Tucker	Te-2-9367	110 Howard St., Thomasville, NC
Foole, William K.	SR		116 St. Mary's St.	Te-3-5915	705 Royal Ct., Charlotte, NC
Foovey, Robert Lee III	FR	4426	208 Becton	Te-2-9334	116 N. Union St., Concord, NC
Foovey, William P.	SO		Oberlin Rd.		P.O. Box 1012, Burlington, NC
Fope, Dwight E.	FR	3370	304 Bagwell	Te-4-9151	1520 Overbrook Rd., Burlington, NC
Fope, James K.	FR	4258	230 Turlington	Te-2-9297	Rt. 2, Benson, NC
Fope, Jerry A.	FR	3789	321 Becton	Te-2-9372	709 N. Ellis Ave., Dunn, NC
Fope, Jimmie Ray	JR			Em-2-9297	111 Broughton St., Garner, NC
Fope, John H.	SR		901 W. Johnson St.	Te-2-5154	1105 9th St., Durham, NC
Fope, Lloyd M.	FR	4648	138 Tucker	Te-2-9388	P.O. Box 244, Norwood, NC
Fope, Michael L.	FR	4802	52 Tucker	Te-2-9237	Rt. 8, Box 222-A, Charlotte, NC
Fope, Thomas A.	SO	329	Rt. 3, Raleigh	Em-2-5885	Rt. 3, Raleigh, NC
Fope, William F.	FR				P.O. Box 575, Halifax, NC
Foplin, Jack K.	GR	5103	2414 Mayview Rd.	Te-4-6183	Rt. 2, Norwood, NC
Foplin, Ronald L.	FR	4502	251 Owen	Te-2-9252	302 Chapel St., China Grove, NC
Forras, Rodrigo A.	SO	3759	225 Becton	Te-2-9334	P.O. Box 1443, Panama, Panama
Forteous, Catherine P.	FR		1910 Park Dr.	Te-2-0746	1669 Forrest, Memphis, Tenn.
Porter, Frank M.	GR			Te-2-3643	2634 Kilgore Ave., Raleigh, NC
Porter, George H.	GR			Te-4-7067	2412 Van Dyke Ave., Raleigh, NC
Porter, Leonard D.	FR	4418	123 Owen	Te-2-9473	304 Meadowbrook, Burlington, NC
Porter, Raymond A.	FR	4172	307 Alexander	Te-2-9349	Rt. 1, Goldsboro, NC
Porter, Richard M.	FR	3803	1 Becton	Te-2-9234	Box 5249, Elizabethtown, NC
Porter, Samuel L., Jr.	SR		508 Dixie Tr.	Te-3-2509	Rt. 4, Sparta, NC
Porter, William L.	JR	5667	1620 Hillsboro	Te-2-9531	Vaughan, NC
Fossey, Clayton E.	GR		405 Brooks		1601 Dakota, Norman, Okla.
Poston, Hugh A.	GR		UK-40 Verville	Te-4-5390	Rt. 2, Box 460, Canton, NC
Poston, Jackie E.	JR	4510	259 Owen	Te-2-9252	1012 West C St., Kannapolis, NC
Poston, Kenneth A.	FR	3354	222 Bagwell	Te-2-9131	1101 Dresden Dr., Charlotte, NC
Poston, Richard M.	JR	4551	337 Owen	Te-4-9300	1212 Airport Rd., Rockingham, NC
Poteat, James Lee	FR	4276	314 Turlington	Te-2-9192	Rt. 3, Box 284, N. Wilkesboro, NC
Poteat, Laurence E.	GR		5011 Dunbar Rd.	Va-8-6566	Raleigh, NC
Poteat, Peter D.	FR	3596	332 Syme	Te-2-9222	817 E. Farris, High Point, NC
Poteat, William T.	JR				1217 Kent Rd., Raleigh, NC
Poteat, Jack R.	JR		3414 Hillsboro	Te-4-5471	Rt. 4, Box 303, Morganton, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Poteet, Leon J.	SO	3115	105 Fourth	Te-2-9159	Rt. 6, Box 681, Morganton, NC
Potter, Benjamin G.	JR		2226 Hillsboro	Te-4-7546	Rt. 1, Box 181, New Bern, NC
Potter, Norwood	SR		130 Woodburn Rd.	Va-8-6702	Rt., Clinton, NC
Potter, Victor C.	FR	3743	209 Becton	Te-2-9334	316 Summit Ave., Kinston, NC
Potts, Grimes R.	FR	3753	219 Becton	Te-2-9334	Rt. 3, Box 265, Lexington, NC
Poulson, Melvin B.	SR		J-22 Married Stu. Ho.	Te-4-6860	RFD 1, Engelhard, NC
Poultnier, Arthur M.	FR	3396	330 Bagwell	Te-4-9151	189 Vermont, Asheville, NC
Powe, Harry L.	GR			Va-8-3070	3436 Redbud La., Raleigh, NC
Powell, Carl F., Jr.	UN		2226 Hillsboro	Te-4-7546	423 S. Front St., Wilmington, NC
Powell, Charles E.	FR	15242	118-D Bragaw	Te-2-9180	1617 Southwood, Charlotte, NC
Powell, Douglas S.	FR				2046 Wake Forest Rd., Raleigh, NC
Powell, Harvey B., Jr.	FR	4358	14 Stadium		2808 Holmes Rd., Greensboro, NC
Powell, James W.	SR	5665	2514 Clark	Te-3-4522	1306 Cornwallis, Greensboro, NC
Powell, Jonathan S.	FR	4666	159 Tucker	Te-2-9388	503 Belmont, Windsor, NC
Powell, Patrick J.	FR	4633	122 Tucker	Te-2-9388	Rt. 2, Clyde, NC
Powell, Robert C., Jr.	FR	3814	12 Becton	Te-2-9261	204 Pearson Dr., Asheville, NC
Powell, Samuel L.	SO	4596	62 Owen	Te-2-9142	2221 Chesterfield Ave., Charlotte, NC
Powell, Steven P.	FR	3261	301 Welch	Te-2-9119	Rt. 6, Box 256, Shelby, NC
Prager, Jeffrey M.	FR		304 E. Park Dr.	Te-2-7638	23 Derby Ave., Cedarhurst, NY
Prairie, Richard R.					Fine City, Minn.
Prak, Anco L.			C-5 Raleigh Apt.	Te-4-7483	Raleigh, NC
Preddy, Fleming M.	SR			Te-4-5990	920 Kent Rd., Raleigh, NC
Preiss, Clifford H.	FR	4462	205 Owen	Te-2-9410	3 Walker St., Milford, Conn.
Prendergast, Michael R.	SR			Te-4-6488	2713 Clark Ave., Raleigh, NC
Prescott, Douglas M.	FR				2501 Wake Forest Rd., Raleigh, NC
Prescott, Jerry F.	FR		H-24 Married Stu. Ho.		1921 1st Ave., N.W., Hickory, NC
Prescott, Jack B.	FR	3737	203 Becton	Te-2-9334	Box 23, Lake Waccamaw, NC
Prescott, Wendell E.	JR		726 Chamberlain	Te-2-6053	P.O. Box 23, Lake Waccamaw, NC
Presley, David M.	SR	15243	120-A Bragaw	Te-2-9180	534 Hendersonville Rd., Asheville, NC
Fresnell, Bynum T., Jr.	JR	4681	208 Tucker	Te-2-9387	221 Calhoun Dr., Wilmington, NC
Pressley, Robert N., Jr.	JR		325 Shepard St.	Te-4-1289	P.O. Box 92, Waynesville, NC
Preston, Lester W., Jr.	GR			Te-2-5349	2933 Claremont Rd., Raleigh, NC
Prew, Franklin L.			17 Riddick Stad.		
Price, Albert L.	SR		2405 Clark	Te-2-6543	91 S. Main St., Moravia, NY
Price, Billy L.	JR		2211 Hope St.	Te-4-1782	Rt. 1, Box 130-B, Clarendon, NC
Price, Charles R.	FR	3266	306 Welch	Te-2-9119	202 Felham St., Selma, NC
Price, Cullen B., Jr.	JR			Va-8-9743	3019 Parrior Rd., Raleigh, NC
Price, Durwood M.	FR	4367	22 Stadium		Rt. 1, Seven Springs, NC
Price, Franklin R.	SR		2007 Pine Dr.	Va-8-2242	504 Trade St., Tarboro, NC
Price, James W.					3406 Scott Dr., Raleigh, NC
Price, Jan Ball	SO		104 Dixie Tr.	Te-2-3558	Rt. 1, Dudley, NC
Price, John T.	FR	3122	204 Fourth	Te-2-9159	324 Old Toll, Asheville, NC
Price, Lois P.	SO				Box 504, Rolesville, NC
Price, Ralph C., Jr.					1801 Carlisle Rd., Greensboro, NC
Price, Ronald P.	SO	4347	2 Stadium		2004 Brice St., Greensboro, NC
Price, William H., Jr.	FR	15105	303-B Bragaw	Te-4-9179	431 N. Patrick St., Leaksville, NC
Price, William J.	SO	4268	117 Alexander	Te-2-9257	3400 Yanceyville, Greensboro, NC
Fridgen, Paul E.	FR	4260	233 Turlington	Te-2-9257	122 Boswell St., Wilson, NC
Fridgen, Samuel I.	FR			Od-6-2797	Rt. 2, Wendell, NC
Friester, Robert W.					Box 223, Graham, NC
Prince, Archie C.	FR	3386	320 Bagwell	Te-4-9151	2 Sunset Tr., Asheville, NC
Prince, John H.	FR	3752	218 Becton	Te-2-9334	42 Main St., Inman, SC
Prince, Walter Ray	GR		224 Scott Hall	Te-4-1374	Rt. 1, Box 91, Cary, NC
Pritchard, Jerry F.	FR	4517	267 Owen	Te-2-9252	301 Sherman Dr., Fayetteville, NC
Pritchard, Thomas A.	FR		2226 Hillsboro		Rt. 1, Box 975, Charlotte, NC
Pritchett, Thelma G.	SR		1508 Frank St.		269 Lake Rd., Thomasville, NC
Pritchett, Morris G.	SO	4811	61 Tucker	Te-2-9186	Columbia, NC
Pritchett, Thomas W.	FR	4749	318 Tucker	Te-2-9323	Rt. 2, Elon College, NC
Privette, Herbert G.	JR				25 Enterprise St., Raleigh, NC
Privott, Wilbur J., Jr.	SR		805 Watauga St.	Te-4-4881	Tyner, NC
Proctor, Charles W.	FR	3712	112 Becton	Te-2-9261	908 Dover Rd., Greensboro, NC
Proctor, James A.	SO	15281	212-C Bragaw	Te-4-9123	Rt. 1, Vale, NC
Proctor, Paul D.	GR		406 N. Blount St.	Va-8-4273	Rt. 4, Box 423, Rocky Mt., NC
Proctor, Thomas G. III	SR			Te-3-6434	2402 Clark, Raleigh, NC
Propst, Jerry M.	FR	4490	236 Owen	Te-2-9252	Rt. 2, Box 77, Hickory, NC
Propst, Paul L.	FR	3516	116 Syme	Te-2-9288	360 E. Ohio Ave., So. Pines, NC
Propst, Roy H.	FR	4408	112 Owen	Te-2-9437	412 Baldwin, Spencer, NC
Pruden, John H., Jr.	FR	4425	130 Owen	Te-2-9437	217 Palen Ave., Newport News, Va.
Fruett, Jeffrey Lynn	SO	15089	221-B Bragaw	Va-8-9590	16 Beryl Rd., Cheltenham, Pa.
Frytherch, Herbert F.	JR	4368	23 Stadium		610 Ann St., Beaufort, NC
Fuckett, Jerry T.	FR	15236	116-B Bragaw	Te-2-9180	Rt. 4, Oxford, NC
Fuckett, Walter H.	JR	15130	315-B Bragaw	Te-4-9179	106 E. Boney, Wallace, NC
Fuckhaber, Edmund C.	SR	5667	1620 Hillsboro	Te-2-9531	962 Ashley Ave., Charleston, SC
Fuett, John D.	SR		3414 Hillsboro	Te-3-4808	Asheville St., Morganton, NC
Fugh, Claud E.	FR	15213	102-C Bragaw	Te-2-9180	Rt. 1, Asheboro, NC
Fulley, Henry T.	FR	4741	308 Tucker	Te-4-9139	Rt. 2, Selma, NC
Fulliam, George D.	SR			Va-8-5294	Rt. 6, Box 87, Raleigh, NC
Fullium, Jerry C.	SR	15186	417-A Bragaw	Te-4-9757	Andrews, NC
Fund, Peter M.	FR	3024	206 Watauga	Te-2-9132	Tokeneke Tr., Darien, Conn.
Funger, John C.	FR	15218	104-D Bragaw	Te-2-9180	19 Brouwer La., Rockville Centre, NY
Furcell, David A.		5667		Va-8-3323	Fieldale, Va.
Furcell, Garnie B.	FR	3131	305 Fourth	Te-2-9159	508 Martin St., Harlan, Ky.
Furdie, John W.	FR	4183	320 Alexander	Te-2-9349	201 S. Orange Ave., Dunn, NC
Furner, Jerry F.	FR			Te-2-3390	6 Dixie Tr., Raleigh, NC
Furris, William T.	FR	4731	264 Tucker	Te-4-9828	310 Paul St., Rocky Mt., NC
Furyear, Huel W.	FR	4358	13 Stadium		Rt. 2, WOODDALE, NC
Fuskas, John P.	JR	3709	109 Becton	Te-2-9256	Rt. 1, Box 4, Castle Hayne, NC
Futnam, James R.	SO		L-11 Married Stu. Ho.	Te-4-0047	120 N. Grand St., Cobleskill, NY

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Quate, Wallace W.	JR	3134	310 Gold	Te-2-9263	302 Wall St., Madison, NC
Queen, James M.	JR	3113	108 Fourth	Te-2-9159	Rt. 1, Morganton, NC
Queen, Larry C.	SR	4437	145 Owen	Te-2-9115	Dillsboro, NC
Quessberry, Garnett D.	SO	3361	229 Bagwell	Te-2-9131	Floyd, Va.
Quick, Gerald T.	SO	15182	415-A Bragaw	Te-4-9737	McCracken Hgts., Sanford, NC
Quincy, Robert H.					
Raafst, Behea E.	UN				Misr Rayon Camp, Alex, U.A.R.
Rabb, Dudley C.	SR		1620 Hillsboro	Va-8-3323	506 Kentwood St., Lenoir, NC
Rabb, John F.	FR		3821 Western Blvd.		Rt. 4, Marion, NC
Rackley, Francis D.	SR		181A Wilshire Ave.	Va-8-3913	P.O. Box 261, Nashville, NC
Rader, Kenneth R.	SO	15133	317-A Bragaw	Te-4-9179	Rt. 1, Newton, NC
Rader, Louis A.	SO	4243	215 Turlington	Te-2-9297	597 Hollow Tree Rdg. Rd., Daren, Conn.
Radford, Frederick C.	SR	15147	323-C Bragaw	Te-4-9179	Rt. 1, Kenly, NC
Radford, Maurice G.	JR	15147	323-C Bragaw	Te-4-9179	Rt. 1, Kenly, NC
Radford, Wade E.	SR		5 Dixie Tr.		306 Wis. St., Spindale, NC
Ragan, Jack M., Jr.	SO	15194	421-A Bragaw	Te-4-9757	412 Ave. A, New Bern, NC
Ragan, James E.	SO	5658	State Col. Stat.		Oriental, NC
Raiford, Phillip H.	FR	3750	216 Beeton	Te-2-9334	2920 Telford Pl., Charlotte, NC
Rainey, John H.	SR	5564	2735A Rosedale Ave.		1022 W. C. St., Kannapolis, NC
Von Ramm, Clas Marten	GR		Dept. Plant Path.		Rhein Str. 64, Mainz, Germany
Rameur, David H.	JR	3709	109 Beeton	Te-2-9256	Caswell, La Grange, NC
Ramey, Henry C.	JR	4202	103 Turlington	Te-4-9279	Hubert, NC
Ramey, James W.	JR		9 Bagwell Ave.		900 Marion, Shelby, NC
Ramey, Wylie Gordon, Jr.				Te-3-5665	2905 Warren Ave., Raleigh, NC
Randall, Charles C.	JR	15040	121-D Bragaw	Te-2-9129	Box 53, Falcon, NC
Randall, William D.	SR	15100	301-A Bragaw	Te-4-9179	1413 N. Main St., Salisbury, NC
Randle, Jay W.	FR	4344	108 Berry	Te-2-9350	176-C Chapman's Landing Rd., Indian Head
Raner, Samuel A.	SR	15026	115-B Bragaw	Te-2-9129	508 New Alex Rd., Gbg. Pa.
Rankin, John B.	JR	4333	313 Berry	Te-2-9372	Redlair, Rt. 2, Gastonia, NC
Rankin, Robert W.	PROF	3039	303 Watauga	Te-2-9488	Gallaudet Col., Washington 2, DC
Ransom, Dennet E.	UN		1509 1/2 Hillsboro		Box 155, Frisco, NC
Raper, Charles D., Jr.	SO	4521	304 Owen	Te-4-9300	103 E. Williamson, Whiteville, NC
Raper, Richard M.	SO	3602	6 Syme	Te-2-9421	Mills Home, Thomasville, NC
Raper, Roy D.	FR	4346	1 Stadium		Rt. 4, Box 370, Wilson, NC
Rash, Kenneth I.	JR			Te-4-8547	602 Shelley Rd., Raleigh, NC
Rasmussen, Birger K. W.	JR	4102	121 Alexander	Te-2-9257	1009 Corbett Ave., Wilson, NC
Rasor, James G.	SO			Te-4-1284	510 Burton St., Raleigh, NC
Raunika, Robert	GR		2400 Wade Ave.	Te-2-1779	Rt. 1, Hantshorne, Okla.
Rawlings, Robert H.	JR	4496	243 Owen	Te-2-9252	38 High Service Ave., No. Providence, RI
Rawls, Dewey W.	SR		2220 1/2 Hillsboro		RFD 1, Box 37, Woodland, NC
Ray, Harold J.	SR	15074	213-B Bragaw	Te-4-9185	St. Rt. Box 64, Burnsville, NC
Ray, Joel W.	SR	5665	251A Clark	Te-3-4522	333 Cumberland, Asheville, NC
Ray, John H.	FR	4363	18 Stadium		301 Bolline, Goldsboro, NC
Ray, Samuel P.	FR		Tex's Tr. Pk.		Rt. 3, Hillsboro, NC
Ray, Thomas Allen	JR	15410	424-C Bragaw	Te-4-9754	Wildwood Pk., Weaverville, NC
Rayfield, Lanny R.	SR	5545	222 Hillcrest Rd.	Te-2-3429	Box 422, Cherryville, NC
Raymond, Gerrard E.	SR	3203	103 Gold	Te-2-9263	6143 West End, New Orleans, La.
Raynor, David B.	FR	3790	322 Beeton	Te-2-9372	2302 W. Market, Greensboro, NC
Raynor, Jimmy D.	FR	4784	357 Tucker	Te-2-9323	Rt. 1, Chinquapin, NC
Raynor, Roy Max	FR				RFD, Garner, NC
Reading, Charles W.	FR	3272	312 Welch	Te-2-9119	1403 General Lee Ave., Fayetteville, NC
Reagan, William C., Jr.	FR	4485	230 Owen	Te-2-9410	721 Crescent, Reidsville, NC
Reaves, Thomas L.	FR	4443	152 Owen	Te-2-9115	709 Barnes St., Jacksonville, NC
Reavis, Donald W.	FR	3390	324 Bagwell	Te-4-9151	1749 Norlina Rd., Henderson, NC
Reavis, Junius B.	SR		W&L Tr. Ct., Cary		511 Huske, Fayetteville, NC
Reber, Dean H.	SR	15274	208-D Bragaw	Te-4-9123	RFD 2, York, Pa.
Redd, Warren J., Jr.	JR	15134	317-B Bragaw	Te-4-9179	6307 Reddman Rd., Charlotte 5, NC
Redding, Wayne Stokes	SO	4466	209 Owen	Te-2-9252	4522 Ogburn Ave., Winston-Salem, NC
Redmon, Donald S.	FR	4752	321 Tucker	Te-2-9323	Rt. 1, Liberty, NC
Redmond, Jake R.	JR		2726 Cambridge Rd.	Te-2-4908	114 Boundary St., Waynesville, NC
Redmon, Robert B., Jr.	SR		1709 Hillsboro	Te-3-6901	119 Wellington St., Asheville, NC
Redwine, David R.	SR	15082	217-C Bragaw	Te-2-9185	607 W. Side Dr., Lexington, NC
Redwine, Richard H.	GR	15191	6 Enterprise St.		Rt. 1, Rural Hall, NC
Reece, Joe W.	GR		6001 Hillsboro	Te-3-7577	Box 37, Boonville, NC
Reece, Roy W., Jr.	SR	15306	226-A Bragaw	Te-4-9123	Box 127, Boonville, NC
Reed, Charles W.	SO		308 Horne St.	Te-2-7050	1501 Cloverdale Ave., Winston-Salem, NC
Reep, Bryan R.	GR				1013 Fowell Dr., Raleigh, NC
Reep, Charles D.	JR		2209 Hope St.	Te-4-3244	Rt. 1, Lincolnton, NC
Reeve, Margot E.	FR			Te-2-5488	130 Lord Ashley Rd., Raleigh, NC
Reeves, Goodwyn George	GR				218 Chamberlain St., Raleigh, NC
Reeves, William H., Jr.	SO	4729	262 Tucker	Te-2-9387	Rt. 1, Hooksville, NC
Reich, Donald G.	SR	15072	211-D Bragaw	Te-2-9185	912 Askev St., Burlington, NC
Reich, Franklin W.	SO			Te-2-4915	1808 Arlington St., Raleigh, NC
Reid, James E.	JR	4301	101 Berry		Mt. Sidney, Va.
Reid, Willis A., Jr.	SO			Te-2-6016	1439 Dixie Tr., Raleigh, NC
Reinecke, John W.	UN		2612 Clark	Te-2-9484	F.O. Box 888, Fayetteville, NC
Reinhardt, Heath F.	UN	15258	126-D Bragaw	Va-8-6379	Corner Oaks, Stanley, NC
Reinke, John H.	GR			Va-8-2914	1058 Nichols Dr., Raleigh, NC
Renner, Robert J.	SO	4435	141 Owen	Te-2-9437	537 Seitz, Easton, Pa.
Rettinger, Lawrence J., Jr.	SO	4809	59 Tucker	Te-2-9237	1620 Lancelot La., Winston-Salem, NC
Reuer, Gunther J.	GR		212 Branson St.		Chapel Hill, NC
Reutlinger, Shlomo				Te-3-4349	312 E. Forest Dr., Raleigh, NC
Revell, John T.					4114 Laurel Ridge Dr., Raleigh, NC
Revelle, William F.	JR		E-26 Married Stu. Ho.	Te-4-4433	Box 154, Warsaw, NC
de los Reyes, Basilio N.	GR		130 Woodburn Rd.		61 Grove, Los Baros, Lagana, Philippines
Reynolds, Arthur E.	SO		402 E. Jones St.	Te-4-9629	3113 Agcroft Rd., Raleigh, NC
Reynolds, David R.	SO	4227	131 Turlington	Te-4-9279	Rt. 1, Patrick Springs, Va.
Reynolds, Eugene T.	PROF			Ho-7-9539	500 Webster St., Cary, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Reynolds, James A.	SR	15108	305-A Bragaw	Te-4-9179	113 Woodland Dr., Boone, NC
Reynolds, Richard F.	SR		I-25 Married Stu. Ho.	Te-4-5795	4907 Lackawanno St., College Fk., Md.
Reynolds, Ronald J.	SO	15255	126-A Bragaw	Te-2-9180	506 Park Ave., Goldsboro, NC
Reynolds, William N.	JR		201 Alumni Bldg.		Robin Hood Rd., Winston-Salem, NC
Rhodes, Albert Jones, Jr.	SR		2410 1/2 Van Dyke Ave.		112 Greenacres, Brevard, NC
Rhodes, James T.	SO	15152	325-D Bragaw	Te-4-9179	277 Hillside St., Asheville, NC
Rhodes, Sam Buck III	SO	4323	303 Berry	Te-4-9363	411 Ellett Ave., Leaksville, NC
Rhodes, Smith A.	GR			Ca-7-7080	1015 Ingle St., Burlington, NC
Rhue, Marion O.	JR		2138 Mayview Rd.		Swansboro, NC
Rhyme, Alfred L., Jr.	GR				40 Hayes Rd., Chapel Hill, NC
Rhyme, Gerald L.	JR		Q-307 Married Stu. Ho.		Rt. 3, Lincoln, NC
Ribelini, Franklin R.	SO	4367	22 Stadium		Rt. 3, Salisbury, NC
Rice, Paul H., Jr.	FR	15074	213-B Bragaw	Te-2-9185	Sunbury, NC
Rice, Robert T.	FR	3529	129 Syme	Te-2-9288	Aurora, NC
Richards, Hardie L.	GR			Te-3-0591	3004 Lewis Farm Rd., Raleigh, NC
Richardson, Charles A.	SR		708 Penn Rd., Ral.	VA-8-3889	P.O. Box 27, Rockingham, NC
Richardson, Gary D.	SO	15265	204-C Bragaw	Te-4-9123	Rt. 3, Siler City, NC
Richardson, Hood L.	SR		406 N. Blount St.	VA-8-4273	Rt. 5, Monroe, NC
Richardson, John G.	FR	4805	55 Tucker	Te-2-9186	Rt. 1, Nakina, NC
Richardson, Kenneth R.					411 Mitchell Ave., Salisbury, NC
Richardson, Marvin R.	SR			Te-2-4273	815 N. Blount St., Raleigh, NC
Richardson, Melvin K.	GR			VA-8-5560	4914 Western Blvd., Raleigh, NC
Richardson, Richard H.	GR		2719 Kilgore Ave.	VA-8-3814	823 E. Palestine, Mexia, Texas
Richardson, Robert G., Jr.	SR		225 Grand Ave.	Te-2-4005	1607 Delaware Ave., Durham, NC
Richardson, Sherman					
Richardson, Theodore G.	GR		2708 Vanderbilt	Te-3-1636	Rt. 1, Climax, NC
Richardson, William C.	FR	15345	318-C Bragaw	Rt. 3, Franklin, NC	
Richie, Robert A.	SO		1710 Hillsboro	Te-4-2001	Box 270, Marion, NC
Richmond, Louis D.	FR	3383	317 Bagwell	Te-4-9151	130 Oakland Rd., Maplewood, NJ
Rickard, Bert E.	SR	71	Rt. 1, Cary	Te-3-8863	310 Rickards Dr., Winston-Salem, NC
Rickell, Charles E.	SR		3414 Hillsboro	Te-3-4808	1300 N. Market, Frederick, Md.
Ricks, Fred G., Jr.	SR	15099	225-D Bragaw	Te-2-9185	Conway, NC
Riddle, Duncan D., Jr.	TR	15015	107-C Bragaw	VA-8-6889	409 Greensboro, Sanford, NC
Ridge, William E.	FR	3394	328 Bagwell	Te-4-9151	204 Westmont Dr., Asheville, NC
Ridgill, Joseph R., Jr.	FR	4727	260 Tucker	Te-2-9387	754 Westover Ave., N.W., Winston-Salem, NC
Ridout, Clarence B.	SR			Te-2-8630	3135 Stanhope Ave., Raleigh, NC
Riedell, Charles A.	JR		2405 Clark	Te-2-6543	117 Birchwood Terr., Clifton, NJ
Rigdon, Ralph L., Jr.				Te-4-3802	423 Glenbrook Dr., Raleigh, NC
Riggins, Charles R.	FR	4683	210 Tucker	Te-2-9387	120 Reeves Ct., Charlotte, NC
Riggins, John F.	FR	4452	161 Owen	Te-2-9473	6321 Tereasa, Charlotte, NC
Riley, Ermer K.	FR	4305	105 Berry	Te-2-9363	Rt. 1, Box 181, Harrisburg, NC
Rink, Donald E.	SR		7 Enterprise St.	Te-4-2815	429 N. Main, Salisbury, NC
Rippy, Billy G.	JR		202 Jones Franklin Rd.	Te-2-3860	111 John St., La Porte, Ind.
Rippy, Ronnie R.	FR	15136	317-D Bragaw	Te-4-9179	408 Virginia Ave., Draper, NC
Ritchie, Joe Lee	FR	4459	202 Owen	Te-2-9252	Rt. 3, Albemarle, NC
Rivadeneyra, Jorge			Alumni Bldg.		Tlaxcala 146, Mexico, Mexico
Rivenbark, Franklin					
Rivenbark, William L.	GR		3314 Pollock Pl.	Te-2-1105	Metter, Ga.
Rix, Kenneth P.	SO	15016	107-D Bragaw	Te-2-9129	33 Beechwood Rd., Asheville, NC
Rizek, Robert L.	GR		3030 Farrior Rd.	VA-8-2983	Belleville, Kansas
Roach, Robert W.	SR	3402	134 Bagwell	Te-4-9219	727 W. Davis St., Burlington, NC
Robbins, James A.			1003 Tower St.		Box 303, Supply, NC
Roberts, James H.			Forestry School		167 Varnedoe Ave., Garden City, Ga.
Roberson, Bernard G.	SR	3307	107 Bagwell	Te-4-9219	Farmale, NC
Roberson, Eugene B., Jr.	FR	4529	314 Owen	Te-4-9836	Box 162, Robersonville, NC
Roberson, William H., Jr.	SO		2713 Vanderbilt Ave.	Te-3-4916	S. Main St., Robersonville, NC
Roberson, William Y.	SR	4455	164 Owen	Te-2-9473	Rt. 1, Smithfield, NC
Roberts, Albert S., Jr.	GR		Physics Dept.	Te-2-8731	3018 Leonard St., Raleigh, NC
Roberts, Alvin Y.	FR	15167	407-C Bragaw	Te-4-9757	426 N. Pine St., Cherryville, NC
Roberts, David A.	FR	4586	52 Owen	Te-2-9142	320 E. Beaver, Landis, NC
Roberts, Donald C.	SR		2227 Bernard St.	Te-4-9624	Rohanen Ave., Rockingham, NC
Roberts, Franklin L.					1609 Beaver Dam Rd., Raleigh, NC
Roberts, Jack F.	FR	4756	325 Tucker	Te-4-9739	Rt. 6, Box 508, Lenoir, NC
Roberts, James C.	SO	3344	212 Bagwell	Te-2-9131	500 W. Vance, Wilson, NC
Roberts, Jerry A.	GR		Uk-39 Verville	VA-8-5789	Box 82, Landis, NC
Roberts, John W.	JR	15007	103-C Bragaw	Te-2-9129	P.O. Box 86, Mocksville, NC
Roberts, Stancil B.	SO	3801	333 Becton	Te-2-9372	Rt. 2, Creedmoor, NC
Roberts, Wayne B.	SO	15018	109-B Bragaw	Te-2-9129	P.O. Box 269, Hillsboro, NC
Robertson, Cleo D.	JR		2718 Clark	Te-2-6451	RFD 1, Reidsville, NC
Robertson, Gerald W.	SO	4405	105 Alexander	Te-2-9257	100 Herrell, Williamston, NC
Robertson, Norman G.	FR	3326	126 Bagwell	Te-4-9219	Rocky Mt., Hwy., Tarboro, NC
Robertson, Robert A.	SR		3306 Hillsboro	Te-3-9347	309 Akron Dr., Winston-Salem, NC
Robeson, Robert I.	SR		Rt. 1, Cary		325 3rd Ave., S.E., Hickory, NC
Robeson, Roger L.	FR	4208	111 Turlington	Te-4-9279	604 N. Howard Cir., Tarboro, NC
Robinson, Clayton H.	SO	3721	121 Becton	Te-2-9256	Box 964, Rt. 4, Clinton, NC
Robinson, Glenn A., Jr.	SO	15076	215-A Bragaw	Te-2-9185	801 Colville Rd., Charlotte, NC
Robinson, Jill E.	PH			Te-3-9925	1407 Lutz Ave., Raleigh, NC
Robinson, Leslie G.	FR	15354	322-D Bragaw	Te-4-9253	206 5th Ave., St. Albans, W. Va.
Robinson, Ronald L.	JR	4202	103 Turlington	Te-4-9279	Rt. 4, Lincoln, NC
Robinson, Ruth B.	FAC				
Robinson, Thomas C.	JR	5667	1620 Hillsboro	Te-2-9531	Georgetown, CC
Rochelle, Neil E.	FR	15237	116-C Bragaw	Te-2-9180	507 Gattis St., Durham, NC
Des Rochers, Joseph O.	SR		2507 Fairview		Sound View Heights, Branford, Conn.
Rock, Michael C.	FR	4725	258 Tucker	Te-2-9857	F.O. Box 86, Burnsville, NC
Rockett, Richard D.	FR	4118	123 Alexander	Te-2-9257	1542 Ann St., New Hope Rd., Gastonia, NC
Rodgers, Harold R.	FR	4163	237 Alexander	Te-4-9746	Rt. 5, Mt. Airy, NC
Rodgers, William G., Jr.	FR	4286	324 Turlington	Te-2-9192	110 Smathers, Canton, NC
Rogers, Charles E.	GR			VA-8-6663	356 Wilnot Dr., Raleigh, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Hogers, Charles H., Jr.	FR	4468	231 Owen	Te-2-9410	1722 W. Home Ave., Hartsville, SC
Hogers, Charles W.	JR				703-C Daniels St., Raleigh, NC
Hogers, Hartwell E.	SO			Te-4-4629	H-3 Grosvenor Gardens, Raleigh, NC
Hogers, Jerry W.	FR	4706	236 Tucker	Te-2-9387	741 West A St., Kannapolis, NC
Hogers, Linwood J., Jr.	SA	15035	119-C Bragaw	Te-2-9129	Rt. 3, Mebane, NC
Hogers, Lloyd Lee	SR			Te-3-9194	2 Ashe Ave., Raleigh, NC
Hogers, Marvin M.	SO	15153	401-A Bragaw	Te-4-9757	Box 12, Clyde, NC
Hogers, Samuel T., Jr.	JR		2920 O'Berry	Te-4-0079	101 Hickman Rd., Tabor City, NC
Hogers, Tommie Lee	FR	4735	302 Tucker	Te-4-9739	Box 62, Saratoga, NC
Hogers, William J.	FR			Te-4-5525	704 N. King Charles Rd., Raleigh, NC
Hogers, William L.	FR			Te-2-5061	1806 Fairview Rd., Raleigh, NC
Hogerson, Asa B.	JR	15223	108-A Bragaw	Te-2-9180	Rt. 2, Williamston, NC
Hogerson, Edward S.	FR	4118	123 Alexander	Te-2-9257	Fayetteville Rd., Rockingham, NC
Hogerson, Godwin C.	JR	15037	121-A Bragaw	Te-2-9129	Rt. 3, Ahoskie, NC
Hobbs, Charles A.	GR	5457	State Col. Stat.	Ext. 386	2456 Wade Ave., Raleigh, NC
Hohloff, Kenneth L.	SO			Te-4-2314	M-14 Married Stu. Ho., State Col. St.
Hohner, Felix W.	FR		117 Forest Rd.		Niklausvau Fluest 26, Basel, Switzer
Roman, Paul E.	JR	15323	308-B Bragaw	Te-4-9253	158 Bradford St., Bristol, RI
Romeo, Paul A.	SR	5566		Te-4-8228	Rt. 2, Box 133-C, Summerville, SC
Rood, Robert T.	FR	3008	198 Watauga	Te-2-9447	219 S. Academy St., Cary, NC
Rose, Charles R.	SR		406 N. Blount	Va-8-4273	Rt. 2, Newton Grove, NC
Rose, Curtis Dean	GR		N-25 Married Stu. Ho.		45 Whittingham Pl., W. Orange, NJ
Rose, Dennis A.	JR		1710 Hillsboro	Te-4-2001	120 College St., Littleton, NC
Rose, Preston E.	JR		2211 Hope St.	Te-4-1782	Rt. 1, Lucama, NC
Rose, William J.	FR	4696	225 Tucker	Te-4-9828	120 College St., Littleton, NC
Rosedahl, James F.	SO	4561	350 Owen	Te-4-9836	Box 52, Dobson, NC
Rosedahl, James F.	FR	4490	236 Owen	Te-2-9252	13 Locust, Canton, NC
Rosensteel, Robert E.	JR	4304	104 Berry	Te-2-9363	4612 Morris Rd., Jacksonville, Fla.
Rosenstrauch, Gary J.	SR		130 Hawthorne Rd.	Va-8-3347	33 Avalon Rd., Hewlett, NY
Rosenthal, Herbert G.	JR			Te-2-4816	127 Forest Rd., Raleigh, NC
Rosier, Robert E.	SR		H-13 Married Stu. Ho.		2317 Fincrest Rd., Greensboro, NC
Ross, Billy L.					
Ross, Cary M.	JR	15231	112-A Bragaw	Te-2-9180	Church St., Rhodhiso, NC
Ross, Charles II	SO	15320	306-C Bragaw	Te-4-9253	203 Hillcrest Dr., Greenville, NC
Ross, Donald W.	JR	3240	104 Welch	Te-2-9119	Wilkins Dr., Rt. 4, Sanford, NC
Ross, Forrest R.	JR				1216 Jones Franklin Rd., Raleigh, NC
Ross, Joseph C.	FR	4504	253 Owen	Te-2-9252	Rt. 1, Box 258, Matthews, NC
Ross, Kenneth W.	JR		2513 Clark	Te-2-0268	Rt. 3, Box 417, Morganton, NC
Ross, Malcolm F.	SR			Te-3-4445	1405 Hathaway Rd., Raleigh, NC
Ross, Michael Lee	FR	4566	355 Owen	Te-4-0401	Rt. 2, Albemarle, NC
Ross, Ronald W.					
Rossi, Jimmy H.	FR		McSwains Tr. Ct., Cary		
Rossignol, Charles F.	SO			Va-8-6656	L-21 Married Stu. Ho., State Col. St.
Roten, Ray J.	SR			Te-3-8173	918 Tower St., Raleigh, NC
Rothrock, Patrick A.	SO			Te-4-6981	1312 Wake Forest Rd., Raleigh, NC
Roughton, Ronald G.	JR	3002	102 Watauga	Te-2-9447	1008 Ehringhaus St., Elizabeth City,
Rouse, Graham M.	JR	3367	301 Bagwell	Te-4-9219	202 Kenneth Blvd., Havelock, NC
Rouse, Robert G.	SO	3606	106 Syme	Te-2-9288	Magnolia, NC
Rouse, Thurman L.			3 Ashe Ave.		Rt. 2, Deep Run, NC
Routh, James H.	FR	4778	351 Tucker	Te-4-9739	507 Franklin Blvd., Greensboro, NC
Rowan, Charles W.					
Rove, Daniel G., III	SR	15149	325-A Bragaw	Te-4-9179	509 7th Ave., N.W., Hickory, NC
Rowland, Silas M.	SR	15226	108-D Bragaw	Te-2-9180	Rt. 2, Box 120, Halifax, NC
Rovley, Lee A.	JR		130 Hawthorne Rd.	Va-8-3347	Nordica Dr., Croton-on-Hudson, NY
Roy, Donald H.	JR		611 Daniels St.		113 Hudson St., Raleigh, NC
Royal, Thomas M.	SA		2705 Vanderbilt Ave.		Thurmond, NC
Royall, James D.	SO		8 Ferndell La.	Te-2-1755	Thurmond, NC
Royall, John A.	FR	4771	341 Tucker	Te-2-9323	221 Beaman, Clinton, NC
Royall, Richard M.	JR			Te-3-9538	1916 Smallwood Dr., Raleigh, NC
Roycroft, Robert E.	JR		Benson, NC		1910 Perry Ave., Wilmington, NC
Roye, Henry E.	SR	393			118 W. 25th, San Angelo, Texas
Royer, Robert D.	FR	15197	421-D Bragaw	Te-4-9757	39 W. 6th St., Mt. Carmel, Pa.
Rozier, Carlton R.	SR		2502 Vanderbilt Ave.	Te-2-5322	901 Faison Ave., Fayetteville, NC
Rozier, Charles Ray	SO		211 Park Ave.		905 E. 1st St., Lumberton, NC
Rudd, Clyde W.	FR	4343	10 Berry	Te-2-9350	303 Kimberly, Greensboro, NC
Rudder, John D.	SO		10 Enterprise St.		718 Maple Ave., Burlington, NC
Ruddell, Raymond F., Jr.	FR	4337	4 Berry	Te-2-9350	182 Shook Rd., Lockbourne A.F.B., OH
Rudisill, Carl S.					315 Willmont Dr., Raleigh, NC
Rudisill, James K.	FR	4599	65 Owen	Te-2-9142	1016 Sherwood Dr., Burlington, NC
Rudisill, Jerry L.	FR	4187	324 Alexander	Te-2-9349	Rt. 1, Mt. Holly, NC
Rue, Walter J., Jr.	FR	3765	231 Becton	Te-2-9334	315 E. St., Middlesex, NJ
Ruehle, John L.	GR		UK-36 Verville	Te-3-0734	29675 E.W. 197th Ave., Homestead, F.
Ruffy, Donald Lee	FR	4442	151 Owen	Te-2-9473	637 Mahaley Ave., Salisbury, NC
Rumakom, Montri	GR		2412 Everette Ave.	Te-4-3677	102 Kot Irannang, Bangkok, Thailand,
Runkle, Charles J.	SO	3561	229 Syme	Te-2-9150	Box 241, Winterville, NC
Ruppe, Jerry Lee	FR	4460	203 Owen	Te-2-9410	5 N. Main St., Cliffsides, NC
Rush, Harris P.	SR	4345	13 Berry	Te-2-9350	1500 Fairway Rd., Asheboro, NC
Russell, Charles E.	SR		2718 Clark	Te-2-6451	Jameville, NC
Russell, Charles J.	SR		2617 Broadwell Dr.		Tröy, NC
Russell, Dennis B.	FR	4696	225 Tucker	Te-4-9928	336 W. Main St., Hope Mills, NC
Russell, Dennis B.	FR	4703	232 Tucker	Te-4-9387	23 Tryon St., W. Asheville, NC
Russell, Harold R.	FR		602 S. Boylan Ave.	Te-2-2866	Box 94, Co-vel, NC
Russell, Kirby Ray	SO	4589	55 Owen	Te-2-142	503 Bostian, Kannapolis, NC
Russell, Millard E.	FR	4410	115 Owen	Te-2-4115	Rt. 4, Albemarle, NC
Russell, Roger A.	FR	4514	263 Owen	Te-2-9252	14 E. Howell Ave., Alexandria, Va.
Russell, Thad T.	FR	4430	136 Owen	Te-2-9115	Russ-Knoll, Granite Falls, NC
Rust, Carl W.	SO	4318	211 Berry	Te-2-9363	500 Sugaw Creek Rd., Charlotte, NC
Rutledge, Howard B.	FR	4703	232 Tucker	Te-2-9387	Rt. 1, Arden, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Rutledge, James R.	FR	4144	215 Alexander	Te-4-8746	533 Davis St., Statesville, NC
Rutledge, Manly S.	FR	3560	228 Syme	Te-2-9150	115 West 2nd St., Ayden, NC
Ryals, Henry W.	FR	15033	119-A Bragaw	Te-2-9129	706 N. Ellis Ave., Dunn, NC
Sadler, Emory W.	JR		21 Enterprise St.	4e-4-2815	Kenansville, NC
Sagmiller, Joseph R.	SO			Te-4-7421	3325 Ridge Dr., Raleigh, NC
Saigal, Mohd Mushtaq	JR	15205	425-D Bragaw	Te-3-7658	Box 369, Kanachi, Pakistan
St. Clair, William Lauriston	SO	4243	215 Burlington	Te-4-0451	1336 Hilltop Rd., Charlottesville, Va.
Saintsinger, Lewis A.	FR		10 Enterprise St.		Rt. 4, Box 48, Thomasville, NC
Salem, Mahmud Hussein	GR		112 N. Boylan Ave.	Te-2-4766	17 Ramadan Boulagin, Cairo, West, Egypt
Salmon, Neil M., Jr.	SR		188 Horne St.		Littlington, NC
Samad, Abdus			109 McKee Hall		20 Ischahand Hakim Lane, Dacca, E. Pakistan
Sams, Clay E.	SO	4484	229 Owen	Te-2-9410	Rt. 1, Dillard, Ga.
Samuels, James D.	PROF	15260	202-B Bragaw	Te-4-9123	1201 Filbert St., High Point, NC
Samborn, Herbert R.	FR	4360	15 Stadium		1905 Farham Rd., Richmond, Va.
Sandahl, David A.	FR	3123	307 Fourth	Te-2-9159	110 Arvin Rd., Morganton, NC
Sanderlin, Gwyn Keith	SR		2406 Greenway Ave.	Va-8-4107	161 Sir Oliver Rd., Norfolk 5, Va.
Sanders, Gus Clint, Jr.	FR	4197	337 Alexander	Te-2-9369	502 Booker, Shelby, NC
Sanders, Martha D.	PROF		102 Park Ave.	Va-8-4845	Rt. 1, Sanford, NC
Sanders, Robert E.	SR				533 E. Main St., Clayton, NC
Sanderson, Charles L.	SR		308 Horne St.	Te-2-7050	Holly St., Frwin, Tenn.
Sanderson, James W.	FR		135 Owen	Te-2-9115	Elizabethtown, NC
Sandifer, James P.	JR	15029	117-A Bragaw	Te-2-9180	46 Stanley Rd., MCS, Cherry Point, NC
Sandifer, Philip M.	SO	15038	121-B Bragaw	Te-2-9180	1524 44th St. N.W., Washington 7, DC
Sandiford, John P.	JR		5501 Meadow Brook Rd.	Va-8-5813	36 Canfield Rd., Pensacola, Fla.
Sanford, Claude W., Jr.	SR		415 Dixie Tr.	Te-2-7015	411 First St., Lauringur, NC
Sanford, Lennie P.	SR		3201 1/2 Merriman Ave.		3528 Draper Ave., Charlotte, NC
Sangster, Kenneth M.	JR		117-B Park Ave.	Te-3-1083	55 Highland Tr., Danville, NJ
Santovasso, Leo A.	JR	3582	318 Syme	Te-2-9222	579 Union St., Rahway, NJ
Sapp, Clifton P., Jr.	FR	4126	131 Alexander	Te-2-9257	Rt. 6, Winston-Salem, NC
Sapp, Ernest Lee	SO	4438	147 Owen	Te-2-9473	4108 1st St., Winston-Salem, NC
Sara, Jay R.	FR	4667	160 Tucker	Te-2-9878	150 2nd 1st St., Belle Harbor, NY
Sargent, Frank D.	GR		105 Folk Hall	Ext. 305	Box 847, Wendell, NC
Sasser, Jack H.	FR		1204 Groveland Ave.	Te-3-8937	Rt. 2, Box 133, Goldsboro, NC
Sasser, Preston E.	GR		2506 Poole Rd.	Te-3-4187	Rt. 5, Box 173, Kinston, NC
Satterfield, Preston	SO		1710 Hillsboro	Te-4-2001	RFD 4, Roxboro, NC
Satterfield, William C.	FR			Te-3-8580	806 N. Snowdon St., Raleigh, NC
Satterwhite, Harold L., Jr.	JR	15063	207-C Bragaw	Te-2-9485	McCain, NC
Satterwhite, Elizabeth Ann	JR		2008 Hillsboro	Te-3-0874	Rt. 3, Box 152, Henderson, NC
Satterwhite, James B.	JR		623 Holden St.	Va-8-5364	Raleigh, NC
Sauls, Admiral D.		4201	102 Burlington	Te-4-9279	Rt. 1, Garner, NC
Sauls, James L.	FR	4672	165 Tucker	Te-2-9388	Rt. 1, Knightdale, NC
Sauls, Norment David, Jr.	FR	4765	335 Tucker	Te-2-9323	Rt. 1, Garner, NC
Saunders, Carl H.	SR	15169	409-A Bragaw	Te-4-9754	Rt. 1, Gibsonville, NC
Saunders, Harvey D.	JR	15048	125-D Bragaw	Te-2-9129	Rt. 3, Box 73, Morganton, NC
Saunders, John R.					2003 Carroll Dr., Raleigh, NC
Savariego, Sam			Dixie Dr.		
Sawyer, Carl T.	SO	4411	116 Owen	Te-2-9115	2516 Neuse Blvd, New Bern, NC
Sawyer, Gordon E.	JR		1428 Jackson St.	Te-2-6050	Rt. 3, Elizabeth City, NC
Sawyer, Henry C.	FR	3607	11 Syme	Te-2-9421	1923 Wake Forest Rd., Durham, NC
Sawyer, Jerry A.	GR	361-A	Rt. 1, Cary	Ho-7-9451	2516 Neuse Blvd., New Bern, NC
Sawyer, Ray B.	SR	4328	308 Berry	Te-2-9363	304 E. 9th St., Washington, NC
Sawyer, Rodney B.	JR		6311 Hillsboro	Te-4-5070	Jacksonville, NC
Saylor, LeRoy C.	GR		3111 Douglass St.	Va-8-5792	1227 10th St. N.W., Cedar Rapids, Iowa
Scarboro, Conrad L.	FR	4595	61 Warren	Te-2-9142	Rt. 1, Norwood, NC
Scarborough, Paul E., Jr.	GR		O-14 Married Stu. Ho.		930 Restmore La., Statesville, NC
Scarborough, Todd R.					
Scarpati, Joseph H.	FR	4481	226 Owen	Te-2-9252	453 Midway Ave., Fanwood, NJ
Searce, Percy J., Jr.	JR		308 Horne St.	Te-3-6697	1510 Franklin Tkp., Danville, Va.
Seesny, Anthony J.	SO	3252	204 Welch	Te-2-9119	1541 Montauk Hwy., Selloport, NY
Schaefer, Walter C.	FR	4554	340 Owen	Te-4-9836	324 Lee, Baltimore, Md.
Schaefer, John R.	FR	4246	218 Burlington	Te-2-9297	8 Freeport Rd., Pittsburgh, Pa.
Schaffer, Henry E.	GR	15298	222-A Bragaw	Te-4-9123	Gomer St., Yorktown Hgts., NY
Scheld, John L.	SR		1809 Park Dr.	Te-3-6558	Rt. 2, Box 416, Statesville, NC
Scheerhorn, Donald F.	SR		2711 Vanderbilt Ave.	Va-8-3515	Box 122, Rotterdam, NY
Scheurenbrand, Howard J.	FR	4567	358 Owen	Te-4-9836	18 Laurel Rd., Lake Ronkonkoma, NY
Schick, Pablo F.	FR	47711	241 Tucker	Te-2-9387	21 Basal Av., El Retira 15, Caracas
Schick, Pedro A.	SO	3766	232 Becton	Te-2-9334	Caracas, Venezuela
Schlegel, Anthony A.	FR	4781	354 Tucker	Te-2-9323	Box 3, Castle Hayne, NC
Schmitt, Daniel W.			1103 Whitaker Mill Rd.		Box 8, Lantana, Fla.
Schneider, Donald A.	SO	3269	309 Welch	Te-2-9119	12 E. 11th St., Roanoke Rapids, NC
Schort, Donald R.	JR	4453	162 Owen	Te-2-9477	1865 17 Ave. N.W., Hickory, NC
Schrimer, Ronald A.	FR		315 Forest Rd.	Te-2-3788	2123 Norcross Rd., Erie, Pa.
Schroene, Jerry W.	FR	4449	158 Owen	Te-2-9115	Rt. 3, Sanford, NC
Schultheis, John F.	SO	4142	213 Alexander	Te-4-9746	Box 98, Guilford, NC
Schut, Wilfred H.	GR		2116 Millbank St.	Va-8-3945	Eustis, Nebr.
Schwartz, Harold	JR		4-109 Married Stu. Ho.		1935 Merriman, Charlotte, NC
Scott, Bobby G.	JR			Va-8-5994	2803 Wade Ave., Raleigh, NC
Scott, David R.	JR		2731 Everett Ave.	Te-2-4134	515 W. 6th St., Oak City, Pa.
Scott, Delmar L., Jr.	FR	4468	212 Owen	Te-2-9410	Rt. 2, Mt. Olive, NC
Scott, Donald C.	FR	4621	120 Tucker	Te-2-9388	224 Belvedere St., Carlisle, Pa.
Scott, Farrell W.	SO		6311 Hillsboro		2430 Waterbury St., Winston-Salem, NC
Scott, Garland E.	SR	3246	110 Welch	Te-2-4419	Box 426, Pineville, NC
Scott, George R., Jr.	UN	3528	128 Syme	Te-2-4488	2511 Cornwell Ave., Charlotte, NC
Scott, John G.	SR			Te-4-2246	709-B Daniels St., Raleigh, NC
Scott, Leo R.	FR	3204	104 Gold	Te-2-9263	RFD 2, New Bern, NC
Scott, Ronald W.	FR	3804	2 Becton	Te-2-9461	Rt. 2, Graham, NC
Scott, Samuel D.	JR	15094	223-C Bragaw	Te-2-9185	Gapway Rd., Fair Bluff, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Seagle, Joe Ben	SC	4677	204 Tucker	Te-2-9387	211 Bristol, Morganton, NC
Seago, James M.	SR			Te-2-4193	2409 Everett, Raleigh, NC
Seagraves, Harold O.	GR		244 Mann Hall	Ext. 568	307 Brooks Ave., Raleigh, NC
Searcy, Donald B.	SR		21 Enterprise	Te-4-2815	Rt. 1, Mill Spring, NC
Searcy, Kenneth R.	FR	3398	332 Bagwell	Te-4-9151	425 S. Center St., Draper, NC
Sears, Billy L.	SO	15195	421-B Bragaw	Te-4-9757	Rt. 3, Apex, NC
Seavright, David S.	FR	4191	328 Alexander	Te-2-9349	1058 Coddington Pl., Charlotte, NC
Seay, William W.	FR	4794	41 Tucker	Te-2-9237	98 Arthur Rd., Asheville, NC
Sechrest, Vinson A.	JR	4341	8 Berry	Te-2-9350	E. Front St., Statesville, NC
Sechrist, John R.	SR	15168	407-D Bragaw	Te-4-9757	226 Vance St., Lexington, NC
Segal, Barbara D.	FR		103 Enterprise St.	Te-2-7652	1528 Eden Terr., Rock Hill, SC
Seiferheld, Alen D.	FR	3309	109 Bagwell	Te-4-9219	138 Thames St., New London, Conn.
Self, Jerry Lee	FR	4124	129 Alexander	Te-2-9257	Rt. 1, Caesar, NC
Self, Lee Scott	GR		2504 Vanderbilt Ave.	Te-2-2369	672 Timm Valley Rd., Atlanta 5, Ga.
Self, Robert H.	SC	4422	127 Owen	Te-2-9115	2515 Chapel Hill Rd., Durham, NC
Sellers, John R.	JR	4704	233 Tucker	Te-2-9387	1903 Moose Rd., Kannapolis, NC
Sellers, Mitchell W.	SR	4575	364 Owen	Te-4-9836	P.O. Box 901, Rockingham, NC
Sells, Donald E.	GR		3900 Arrow Dr.	Te-2-9959	5935 Vandercook Dr., Monroe, Mich.
Selman, Frank L.	GR		488 Williams Hall		2241 Noble Rd., Raleigh, NC
Sequeira, Avilino, Jr.	SR		1413 Beaver Dam Rd.	Va-8-5020	95 Liberty, Biltmore, NC
Sessoms, James B.	SO		3207 Hillsboro	Te-4-2051	1307 N. Pine St., Lumberton, NC
Sessoms, William R., Jr.	SR	4642	131 Tucker	Te-2-9367	Colevain, NC
Settlemire, Guy O., Jr.	SR	371	104 S. Dowson St.	Te-2-7743	Settlemire, Drexel, NC
Settlemire, Thomas F.	FR	371	104 S. Dowson St.	Te-2-7743	Box 394, Drexel, NC
Setzer, Jerry Lee	SO	5566		Te-4-8227	114 Elm St., Mooreville, NC
Sevell, John I.	GR		3314 Follock Plaza	Te-3-0327	RFD 2, Cave Spring, Ga.
Sezer, Basri	GR		407 Stacy	Te-2-3418	Orta Mahalle, Surmene, Turkey
Sficas, Achilles G.	GR		2320-B Clark		56 Tertipi Str., Athens, Greece
Shachtman, Richard H.	SO		304 E. Park Dr.	Te-2-2688	402 Wayne Dr., Fairborn, Ohio
Shaffner, Thomas J.	FR	4622	109 Tucker	Te-2-9388	217 Pine Valley, Winston-Salem, NC
Shaffer, Weldon F.	JR	15179	413-C Bragaw	Te-4-9757	2415 Dove, Williamsport, Pa.
Shadkh, Maqbool Ilahi	GR	5784	State Col. Stat.	Te-2-1403	5 L Gulberg, Calore, Pakistan
Shanker, Mark Hanna	FR	3617	21 Syme	Te-2-9421	1185 E. Broadway, Hewlett, NY
Shanklin, Julius A., Jr.	JR			Te-3-1058	406 Brooks Ave., Raleigh, NC
Shanks, Kenneth E.	SR	4676	203 Tucker	Te-4-9387	119 S. Cherry St., Kernersville, NC
Shannon, Charles R., Jr.	JR	5566		Te-4-8227	803 W. Church, Laurinburg, NC
Shaps, Spencer N.	SR		304 E. Park Ave.	Te-2-7638	224 E. 93 St., Brooklyn 12, NY
Sharp, Jack L.	FR	4458	201 Owen	Te-2-9410	2604 Spring Garden, Greensboro, NC
Sharp, William F.	FR	3007	107 Watauga	Te-2-9447	P.O. Box 143, Guilford, NC
Sharp, William R.	FR	4698	227 Tucker	Te-4-9828	2506 McNeill Cr., Fayetteville, NC
Sharpe, Tommy G.	SO	3351	219 Bagwell	Te-2-9131	654 Bost St., Statesville, NC
Sharpe, William N., Jr.					601 Aiken Pkw., Fuquay Springs, NC
Shaver, Darryl Lane	SO	15117	309-B Bragaw	Te-4-9179	204 W. 28 St., Charlotte 6, NC
Shaw, Barry A.	SO		11 Maiden La.	Te-3-6901	1507 Garfield Rd., Burlington, NC
Shaw, Howell W.					Rt. 1, Garner, NC
Shaw, John Q., Jr.	SO	15382	410-D Bragaw	Te-4-9754	Rt. 6, Box 122, Durham, NC
Shaw, Martin C.	SO		F-24 Married Stu. Ho.	Te-3-0226	Raleigh, NC
Shaw, Ray C.	SR		3116 Douglas St.	Te-3-8529	Rt. 2, Box 31, Ellerbe, NC
Shaw, Robert F.	SR		130 Hawthorne Rd.	Va-8-3347	2011 Morganton Rd., Fayetteville, NC
Shea, Charles T.	UN		3402 Hillsboro	Te-4-3917	209 Magnolia, Waycross, Ga.
Shealy, Charles W.	FR	4737	304 Tucker	Te-4-9379	Twin City Dairy, Batesburg, SC
Shearin, Herbert B.	JR			Te-4-4812	2100 Ann St., Raleigh, NC
Shearin, Robert N.	FR		1213 Pearce St.	Te-2-1561	1213 Peace St., Raleigh, NC
Shearon, Ronald W.	SR		2718 Clark	Te-2-6451	Rt. 2, Wake Forest, NC
Shearon, Winston T., Jr.	JR			Te-2-3409	2330 Lyon St., Raleigh, NC
Sheehan, John A.	FR	3502	102 Syme	Te-2-9288	310 W. Marsh, Salisbury, NC
Sheely, Adrian R.	JR	15375	408-A Bragaw	Te-4-9754	Box 817 Shaw Rd., Fayetteville, NC
Shelby, Clayton E., Jr.	SR			Te-4-1706	Rt. 1, Raleigh, NC
Shelton, David W.	FR	4698	227 Tucker	Te-4-9828	4718 Southwin Dr., Winston-Salem, NC
Shelton, Edward G.	FR	4511	260 Owen	Te-2-9410	2717 Lovedale Ave., Winston-Salem, NC
Shelton, Henry H.	SO		2204 Hillsboro		Box 998, Hobgood, NC
Shelton, James D.	SC	15311	302-B Bragaw	Te-4-9253	815 E. Farris, High Point, NC
Shelton, Paul W., Jr.	SO	4310	203 Berry	Te-2-9363	Box 152, Pilot Mtn., NC
Shelton, William B.	FR	3756	222 Becton	Te-2-9344	Oakmont Dr., Asheboro, NC
Shelton, William Douglas	FR	4764	333 Tucker	Te-2-9323	Rt. 3, Roxboro, NC
Shepard, Arthur J.	SR		711-C Daniels St.	Va-8-9845	800 N. Main St., Waynesville, NC
Shepherd, Donald L.	SO	15035	119-C Bragaw	Te-2-9129	Rt. 3, Mebane, NC
Shepherd, Dorsey S.					619 Edmond St., Raleigh, NC
Shepherd, James E.	SO	4330	310 Berry	Te-2-9363	Rt. 1, Whitsett, NC
Shepherd, Robert E.	JR		1718 Hillsboro	Va-8-464	Deep Gap, NC
Shepherd, Stephen C.	UN	4193	330 Alexander	Te-2-9349	Ferguson, NC
Sheppard, Ronald E.	JR	15234	112-D Bragaw	Te-2-9180	Rt. 1, Bethabara Rd., Winston-Salem, NC
Sheppard, Robert R.	SR				2130 Mayview Rd., Raleigh, NC
Sher, Horace J.	SR	3209	104 Gold	Te-2-9263	213 Dillard St., Durham, NC
Sherman, Stephen W.	SO	15039	121-C Bragaw	Te-2-9129	209 Canterbury Rd., Jacksonville, NC
Sherratt, William E.	FR	4567	356 Owen	Te-4-9836	Box 213, Rt. 3, New Bern, NC
Sherrill, Bobby L.	FR	4509	258 Owen	Te-2-9252	1719 16 St. N.E., Hickory, NC
Sherrill, John R.	SR		1710 Hillsboro	Te-4-2001	524 Lakewood Rd., Kingsport, Tenn.
Sherrill, Robert T.	SR	15128	313-E Bragaw	Te-4-9179	124 Elm St., Mooresville, NC
Sherrill, Van D.	JR	5022	104 Montgomery St.	Te-4-0422	Rt. 3, Benson, NC
Sherrill, Wilson A. II	FR	4480	225 Owen	Te-2-9410	Terrell, NC
Shields, John A.	FR	3553	221 Syme	Te-2-9150	Box 88, Tryon, NC
Shields, Odell W.	FR	4640	120 Tucker	Te-2-9388	636 N. Fence Haven Rd., Winston-Salem, NC
Shields, Robert F.	JR		Q-121 Married Stu. Ho.	Te-4-3046	304 W. Austin, Mebane, NC
Shinn, Pearson S. III	JR	4808	53 Tucker	Te-2-9186	1324 Wayne Dr., Annandale, Va.
Shinn, Robert W.	SO		2709 Bedford Ave.	Te-2-0387	Raleigh, NC
Shinn, Thomas S., Jr.	SR	3744	210 Becton	Te-2-9334	11 Rosewood Ave., Asheville, NC
Shipman, Robert Ray	FR	4476	221 Owen	Te-2-9252	216 E. Alley St., Hendersonville, NC
Shipp, Clarence F.	SR		308 Horne St.	Te-2-7050	421 Lafayette St., Clinton, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Shirkey, Thomas J.	FR	3261	301 Welch	Te-2-9119	Box 333, Grover, NC
Shivar, Curtis T.	JR	3050	306 Watauga	Te-2-9488	Rt. 1, Seven Springs, NC
Shive, Philip A.	SR	3201	101 Gold	Te-2-9263	c/o T.E. Setser, Scotts, NC
Shockley, Joe Melvin, Jr.	SR		411 YMCA	Te-2-6601	204 Forrest Dr., Laurens, SC
Scholar, Merriman S.	GR				2318 Markham Ct., Charlotte, NC
Shook, David H.	FR	4463	206 Owen	Te-2-9410	220 Armfield St., Statesville, NC
Shook, David L.	SO		2220 Hillsboro		79, 28 St. N.W., Hickory, NC
Shore, Gerald L.	JR		G-2 Shelton Apts.		Rt. 1, Lewisville, NC
Shore, Henry B.	SO	15044	123-D Bragaw	Te-2-9129	Rt. 2, East Bend, NC
Shore, John B.	JR	15044	123-D Bragaw	Te-2-9129	Rt. 2, East Bend, NC
Short, Robert C.	SO		2716 Vandyke St.		Rt. 2, Box 70, Norlina, NC
Short, Timothy H.	SO	5566		Te-4-8221	1010 Bridges St., High Point, NC
Shotter, Douglas R.	JR	15291	218-B Bragaw	Te-3-480E	604 Riverview, Suffolk, Va.
Shotwell, James F.	FR	4674	201 Tucker	Te-4-9828	Rt. 2, Roxboro, NC
Shouldars, Philip E., Jr.	FR	4659	152 Tucker	Te-2-9388	Rt. 5, Kinston, NC
Shouse, Jerry H.	FR	3780	312 Beeton	Te-2-9372	Rt. 1, Box 75, Winston-Salem, NC
Showalter, Ralph E.	FR	3785	317 Beeton	Te-2-9372	139 Walnut St., Arden, NC
Shreni, Suresh C.			Forestry School	Va-8-9763	14/44 Chhapetee, Aligarh, India
Shreve, David C.	FR			Va-8-2382	2518 Clark Ave., Raleigh, NC
Shuford, William B.	SR			Te-2-7684	1809 Smallwood Dr., Raleigh, NC
Shuler, John B.				Te-2-7638	2720 Vanderbilt Ave., Raleigh, NC
Shulimson, Michael S.	SO		304 E. Park Dr.	Te-4-9387	70 W. Kensington Rd., Asheville, NC
Shuller, Edgar R.	SR	4676	203 Tucker	Te-2-9263	Grifton, NC
Shum, Raymond Hing-Yan		3235	311 Gold	Te-2-9387	Fung Kit Heung Un Long, N.T., Hong Kong
Shumaker, Carl A., Jr.	FR	4728	261 Tucker	Te-2-9421	307 Maupin Ave., Salisbury, NC
Shumate, Lewis H.	FR	3620	24 Syme	Te-4-9253	207 E. 9th Ave., Johnson City, Tenn.
Shumate, Stewart T., Jr.	SR	15310	302-A Bragaw	Te-4-9300	400 C St., Cherryville, NC
Sides, David L.	SO	4526	309 Owen	Te-2-9252	2509 Haven, Kannapolis, NC
Sides, Dolan L.	JR	4504	253 Owen	Te-4-9151	Rt. 3, Albemarle, NC
Sides, Larry W.	FR	3393	327 Bagwell	Te-2-9115	108 W. Hall St., Wallace, NC
Sides, William C., Jr.	FR	4438	147 Owen	Te-4-0684	4415 Country Club, Winston-Salem, NC
Sidler, Garrett V.	GR		3038 Farrior Rd.	Te-2-4843	341 Fairview Ave., Arcadia, Calif.
Siewert, Charles E.	GR		2572 Clark	Te-2-9192	2615 Lomund Dr., Louisville, Ky.
Signon, Charles N.	SO	4286	324 Turlington	Te-2-9180	Rt. 2, Mooresville, NC
Signon, Darrell W.	SO	15328	110-C Bragaw	Te-2-8278	Rt. 2, Box 139, Hickory, NC
Signon, Ned A.	SR		849 Bryan St.	Te-4-9300	Rt. 3, Box 348, Hickory, NC
Silla, James R., Jr.	FR	4574	363 Owen	Te-2-9322	58 Randolph, Shelby, NC
Silva, Carlos	GR		Alumni Bldg.	Te-2-7638	San Gil Santandes, Colombia, SA
Silver, Lawrence A.	SR		304 E. Park Dr.	Te-2-9186	86-31 Sancho St., Holliswood 25, NY
Silverman, Robert	FR	4801	51 Tucker	Te-2-9388	779 Madison Ave., Union, NJ
Simbeck, Jon Ed	JR	4657	150 Tucker	Te-2-9387	715 Howard Ave., Du Bois, Pa.
Simerson, Hayden C.	FR	4728	261 Tucker		Rt. 1, Salisbury, NC
Simon, Atanacio A.	UN		116 Forest Rd.	Va-8-5246	7F Akle, Quirino, Quezon City, Rphilippines
Simons, Charles R.	JR		2220 Hillsboro	Te-2-4972	161 Gumbranch Rd., Charlotte8, NC
Simons, Ernest G.	JR		I-21 Married Stu. Ho.	Te-2-9334	1056 Southern Ave., Fayetteville, NC
Simons, Lloyd C.	JR		2212 Hope St.	Te-2-1112	Camp Aachela, Blakeslee, Pa.
Simons, Owen P.	FR	3751	217 Beeton	Te-2-9410	Goshen Rd., Newtown Square, Pa.
Simons, Preston E.	JR			Te-2-9180	2424 Wade Ave., Raleigh, NC
Simons, William C.	SO	4468	212 Owen	Te-2-9410	Albertson, NC
Simons, William S.	SO	15231	112-A Bragaw	Te-2-9410	23 Forest Ave., Granite Falls, NC
Simon, George S.	FR	4494	240 Owen	Va-8-3347	1130 Cumberland Ave., Gastonia, NC
Simons, Robert H.	SR		115 Forest Dr.	Te-2-9387	723 Yorkshire Rd., Winston-Salem, NC
Simpson, Charles D.	JR	4722	255 Tucker	Te-4-9179	Rt. 4, Box 5378, Charlotte, NC
Simpson, James D., III	SR	15103	301-D Bragaw	Te-4-9179	3020 Cliffdale, Fayetteville, NC
Simpson, James R.	FR	4271	307 Turlington	Te-4-9828	Rt. 1, Sanford, NC
Simpson, Phillip B.	FR	4708	238 Tucker	Te-4-9387	317 Tucker Ave., Winston-Salem, NC
Simpson, Robert W.	JR	4676	203 Tucker	Te-4-9739	602 E. Donaldson Ave., Ræford, NC
Simpson, Shirley R.	FR	4747	316 Tucker	Te-3-0862	RFD 1, Prospect, Va.
Simpson, William G.	FR	4482	227 Owen	Va-8-2672	520 Wilcox St., Plymouth, NC
Simpson, William F., Jr.	UN			Te-4-9151	2706 Vanderbilt Ave., Raleigh, NC
ims, Bill H.	UN			Te-2-1835	514 Beverly Dr., Raleigh, NC
ims, John D.	FR	3394	328 Bagwell	Te-2-9387	Box 344, Troutman, NC
Incclair, James H.	SR		2702 Hillsboro	Va-8-2916	Box 251, Rowland, NC
Ingletary, Howard M., Jr.	FR	4717	250 Tucker		717 Powell Dr., Raleigh, NC
Ingletary, June, Jr.	GR		2226 Hillsboro		Rt. 2, Bladenboro, NC
Ingleton, John G.	JR				805-B Daniels St., Raleigh, NC
Ingleton, John A.			221 Forest Rd.	Te-2-9186	Rt. 6, Murfreesboro, Tenn.
ink, James A., Jr.	FR	4814	64 Tucker	Te-2-9185	7 Steel St., Thomasville, NC
ink, Larry W.	FR	15053	203-A Bragaw		Rt. 9, Lexington, NC
ink, Thomas Lee			10 Enterprise St.	Te-2-9388	Rt. 3, Thomasville, NC
ink, Thomas R.	FR	4644	133 Tucker	Te-4-0039	Rt. 5, Winston-Salem, NC
innock, Fomeroy III	SO		N-21 Married Stu. Ho.	Te-2-3013	Rt. 5, New Castle, Ind.
iror, Chayasara	FR	3052	1225 Duplin Rd.	Te-2-9488	111 School St., Shelby, NC
ir, Marion A.	UN		316 Watauga	Te-2-4843	11 Sounaork, Chiemang, Thailand
iton, Harry A.	UN	15129	105 Chamberlain	Te-4-9179	1424 Overbrook, Burlington, NC
idmore, James D.	JH		315-A Bragaw	Te-2-7050	347 Sand Hill Rd., Asheville, NC
inner, Egan G.	SO	15076	308 Horne St.	Te-2-9185	Hopedale, Burlington, NC
ipper, Horace D.	FR	4402	215-A Bragaw	Te-2-9437	Wendell St., Winston-Salem, NC
igley, Earl O.	GR		103 Owen	Ext. 345	Abbotsburg, NC
osnik, Ronald J.	FR	4558	230 Williams Hall	Te-4-9836	Rt. 6, Raleigh, NC
ock, William H.	FR	15296	347 Owen	Te-4-9123	217 Wright St., McKees Rocks, Pa.
ode, William D.	FR	3044	226-C Bragaw	Te-2-9488	4810 Wrightsville, Wilmington, NC
ater, Robert M.	JR		308 Watauga	Te-2-9827	Rt. 1, Box 242, Bath, NC
ayton, Thomas H.	FR		917 Johnson St.	Te-4-6529	300 Kincaid Ave., Wilson, NC
ean, Benjamin J.	JR		2021 Noble Rd.	Te-3-6697	3605 Reynolds Rd., Richmond, Va.
ean, George A.	SC		308 Horne St.	Te-2-5471	Box 4, Waynesville, NC
ecumb, William H., Jr.	FR	3324	124 Bagwell	Te-4-9219	1516 Powell Dr., Raleigh, NC
					311 N. Orange Ave., Dunn, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Sloop, John E.	FR	4661	154 Tucker	Te-2-9367	Forest Hills Rd., Wilkesboro, NC
Slossman, Frederick N.	SR	5134	309 E. Park Dr.	Te-2-7638	7 Northwood Rd., Asheville, NC
Slyter, Leonard L.	GR		310 Folk Hall	Ext. 241	601½ Powell Dr., Raleigh, NC
Smale, Richard F., III	GR		2226 Hillsboro	Va-8-2916	Winding Rd., Pottstown, Pa.
Small, Minton C.	FR	3530	130 Syme	Te-2-9288	Rt. 3, Edenton, NC
Smallwood, Jimmy R.	FR	4251	223 Turlington	Te-2-9297	Rt. 3, Apex, NC
Smallwood, William B.	FR			Te-4-7116	5006 Dunbar St., Raleigh, NC
Smart, Eric E.	SR		J-1 Country Club Ho.	Va-8-4831	Raleigh, NC
Smart, Harold J.	JR	15093	223-B Bragaw	Te-2-9185	N. Main, Draper, NC
Smires, Mohamed	JR	15219	106-A Bragaw	Te-4-7998	50 Sraghma, Casablanca, Morocco
Smith, Alford L.	SO	15286	216-A Bragaw	Te-4-9123	Bowden, NC
Smith, Allen W.	GR	4363	18 Stadium		Cordova, NC
Smith, Allie M.	GR		5212 Halbourne Rd.	Te-4-9664	Tabor City, NC
Smith, Alton G.	SO	3319	119 Bagwell	Te-4-9219	Rt. 5, Box 510, Goldsboro, NC
Smith, Angela A.	SO		206 Forest Rd.	Te-2-1366	P.O. Box 61, Garland, NC
Smith, Arthur D.	FR	3347	215 Bagwell	Te-2-9131	170 S.E. 12th Terrace, Apt. 9, Miami, Fla.
Smith, Arthur R.	FR	4721	254 Tucker	Te-2-9387	7224 Sardis Rd., Charlotte, NC
Smith, Aubrey T.	JR		2705 Vanderbilt	Va-8-4265	3179 Westover Dr., S.E., Washington, DC
Smith, Blair J.					
Smith, Bobby E.	JR	323	2113 Buckingham Rd.	Te-3-0414	2113 Buckingham Rd., Raleigh, NC
Smith, Boyd A.	SO	15089	321-B Bragaw	Te-4-9179	Rt. 5, Box 333, Asheville, NC
Smith, Carson, Jr.	SO		1706 Wake St.	Te-4-6856	Box 93, Taylorsville, NC
Smith, Charles D.	JR	5566		Te-4-8227	705 E. 4th St., Greensboro, NC
Smith, Charles H.	JR		3529 Edwards Mills Rd.	Te-4-5679	3529 Edwards Mills Rd., Raleigh, NC
Smith, Charles R., Jr.	SR		1408 Hillsboro	Te-2-2262	Box 202, Albemarle, NC
Smith, Daniel W., Jr.	SO	4461	204 Owen	Te-2-952	Box 19, Wagram, NC
Smith, David M.	SO	4589	55 Owen	Te-2-9142	198 Buffalo, Concord, NC
Smith, David R.	FR			Te-2-6798	2506 Stafford Ave., Raleigh, NC
Smith, Don Barry	FR	4279	317 Turlington	Te-2-9192	3716 Woodcrest Rd., Roanoke, Va.
Smith, Donald E.	GR		Denton Tr. Ct., Cary		132 Gilbert Ct., Florence, Ala.
Smith, Duane R.	SO		J-14 Married Stu. Ho.		210 Lenox Ave., Elmira, NY
Smith, Edward R.	SR		5655 Western Blvd.		
Smith, Frank H., Jr.	SR	3382	316 Bagwell	Te-4-9151	2506 Stafford Ave., Raleigh, NC
Smith, Frank S.	SO		3414 Hillsboro	Te-3-4808	3 Dogwood Rd., Asheville, NC
Smith, Fred A., Jr.	SR		211 Groveland Ave.		306 Hunter Dr., Mt. Airy, NC
Smith, George E.	SO	4239	211 Turlington	Te-2-9297	Rt. 2, Clayton, NC
Smith, Glenn C.	JR		State Sch. for Blind	Va-8-9623	8575 Main, Kannapolis, NC
Smith, Hampton Lee	JR	4808	58 Tucker	Te-2-9226	3019 N. Tuckahoe St., Arlington 13, Va.
Smith, Harold D.	FR	4161	3413 Lewis Farm Rd.	Te-3-9928	2029 Bills Dr., Jacksonville, Fla.
Smith, Howard W.	JR	15313	233 Alexander	Te-4-9746	Rt. 1, Albemarle, NC
Smith, Howitt S.	SO	3250	302-D Bragaw	Te-4-9253	Rt. 2, Box 263, High Point, NC
Smith, Ivenson Richard	SR		202 Welch	Te-2-9119	Fallston, NC
Smith, J. C.	GR		1508 Hillsboro	Te-2-6153	Box 128, Rt. 2, Newton, NC
Smith, James C.	SO			Va-8-4207	2403 Grant Ave., Raleigh, NC
Smith, James E.	SO	4483	228 Owen	Te-4-0069	20 Burton Ave., Raleigh, NC
Smith, James H.	FR	3266	306 Welch	Te-2-9410	Rt. 2, Box 154, Asheville, NC
Smith, James Holt	SR		2817 Mayview Rd.	Te-2-9119	306 Anderson St., Selma, NC
Smith, James Thomas	JR	3239	103 Welch	Te-4-9690	209 W. Ashe St., Lenoir, NC
Smith, James W., Jr.	FR	4576	365 Owen	Te-2-9119	Monore Ave., Kings Mtn., NC
Smith, Jerry	SO		2226 Hillsboro	Va-8-9306	Rt. 1, Westfield, NC
Smith, Jerry W.	SO	15414	426-C Bragaw	Te-4-9754	Rt. 1, Box 993, Charlotte, NC
Smith, John Alton	JR	15286	216-A Bragaw	Te-4-9123	Box 514, Brown Summit, NC
Smith, John K.	SR		3524 Avents Ferry Rd.	Te-3-4747	Bowden, NC
Smith, John R.	FR	4445	154 Owen	Te-2-9115	Raleigh, NC
Smith, John Wilbur	FR				910 Faculty St., Boone, NC
Smith, Johnny B.	JR	5566		Te-4-8227	Col. View Tr. Ct., Raleigh, NC
Smith, Jonathan D.	FR	3382	316-Bagwell	Te-4-9151	Box 1203, Eustis, Fla.
Smith, Joseph R.	JR		Dixie Apts. 7		303 Watson, Windsor, NC
Smith, Julian F., Jr.	FR	4564	353 Owen	Te-4-9836	2321 Danbury, Greensboro, NC
Smith, Kenneth R., Jr.	FR			Va-8-5698	Rt. 1, Box 223-D, Nashville, NC
Smith, Larry B.	GR		104 Horne St.	Te-4-0964	18½ Horne St., Raleigh, NC
Smith, Louis R.	SR	3516	116 Syme	Te-2-9150	Marshville, NC
Smith, Marion J.	JR		3005 Leonard St.	Te-3-4797	306 Hunter Dr., Mt. Airy, NC
Smith, Noel M.	GR		1046 Nichols Dr.	Te-4-3533	325 Sunset Ave., Asheville, NC
Smith, Michael W.	FR	4717	250 Tucker	Te-4-9828	Rt. 6, Box 318, Houston, Texas
Smith, Otto C.	SR		L-24 Married Stu. Ho.		1814 Lombardy Cir., Charlotte, NC
Smith, Owen F., Jr.	SO			Te-2-1337	Raleigh, NC
Smith, Owen James	FR	4425	130 Owen	Te-2-9473	122 Perquimans Dr., Raleigh, NC
Smith, Paul W.	FR	3333	201 Bagwell	Te-4-9746	51 Hopkins St., Newport News, Va.
Smith, Philip W.	SO			Te-2-5077	436 N. Marshall, Graham, NC
Smith, Polly Ann	UN	5614	State Col. Stat.	Te-2-1143	2712 Mayview Rd., Raleigh, NC
Smith, Radford C.	FR	3344	212 Bagwell	Te-2-9131	MR 219-D, Midway Park, NC
Smith, Ralph L.					2121 Roslyn Ave., Charlotte, NC
Smith, Raymond L.	JR		125 Hawthorne Rd.	Te-2-1183	316 King Charles Rd., Raleigh, NC
Smith, Reuben T.	SR			Te-3-4797	1913 E. 4th St., Greenville, NC
Smith, Ronnie Lee	FR	4798	48 Tucker	Te-2-9237	3005 Leonard St., Raleigh, NC
Smith, Robert A., Jr.	SO		3821 Western Blvd.		Rt. 2, Elon College, NC
Smith, Robert Edward	SO	4198	338 Alexander	Te-2-9349	RFD 2, Box 25, Elizabethtown, NC
Smith, Robert H., Jr.	SO	4619	105 Tucker	Te-2-9388	1827 McCougan Rd., Fayetteville, NC
Smith, Robert J.	SR		1710 Hillsboro	Te-4-2001	1907 Greenbriar Rd., Kinston, NC
Smith, Robert Lee	SR	341-A	Rt. 1, Cary	Ho-7-3965	177 Lakeshore Dr., Asheville, NC
Smith, Roger H.	GR		O-15 Married Stu. Ho	Te-3-3770	Fairport, Va.
Smith, Ronald E.	SR	3822	21 Beaton	Te-2-9261	Rt. 5, Box 8, Yakima, Washington
Smith, Rufus K., Jr.	JR	5667	1620 Hillsboro	Va-8-3323	1201 Dawson Pl., Rocky Mt., NC
Smith, Stanley G.	JR	3524	124 Syme	Te-2-9288	1137 Coddington Pl., Charlotte, NC
Smith, Thomas M.	JR		3314 Pollock Pl.	Te-2-0847	Rt. 1, Hickory, NC
Smith, Thomas Nicholls	JR	15176	411-D Bragaw	Va-8-6753	2110 Griffin Ave., New Bern, NC
					303 Watson St., Windsor, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Smith, Thomas P.	SO	4483	228 Owen	Te-2-9252	34 Water St., Swansboro, NC
Smith, Thomas Ray	SO	15194	421-A Bragaw	Te-4-9757	Rt. 3, Dunn, NC
Smith, Walter T., Jr.	FR	4425	130 Owen	Te-2-9437	129 James River Dr., Newport News, Va.
Smith, Warren W.	FR	4285	323 Turlington	Te-2-9192	2401 Walker, Winston-Salem, NC
Smith, William Alfred	SR	15278	210-D Bragaw	Te-4-9253	Rt. 2, Box 154, Asheville, NC
Smith, William A.	FR	3746	212 Beeton	Te-2-9334	245 Carter Cir., Winston-Salem, NC
Smith, William B.	SO	15353	322-C Bragaw	Te-4-9253	Rt. 2, Kings Mtn., NC
Smith, William C.	GR			Te-4-0540	827 Jones Rd., Raleigh, NC
Smith, William E.	JR		2220 Hillsboro		2099 Bills Dr., Jacksonville, Fla.
Smith, William D.	FR		4-312 Married Stu. Ho.		1215 Sunset Ext., Asheville, NC
Smith, William L., Jr.	JR	4683	210 Tucker	Te-2-9387	Box 1, Rt. 1, Bayboro, NC
Smith, William Sidney	SO	4119	424 Alexander	Te-2-9257	642 Norfolk St., Rocky Mt., NC
Smith, Woodrow L.	FR	4741	308 Tucker	Te-4-9739	Rt. 1, Warsaw, NC
Smith, Sigrida Rita	SR			Te-4-5432	188 Box Ave., Raleigh, NC
Smitherman, James S., Jr.	JR	15155	407-C Bragaw	Te-4-9757	Russell, Troy, NC
Smitherman, Renford C.	GR		402 Avery Rd.	Va-8-6586	Rt. 1, Randolph, Ala.
Smitherman, Thomas D.	FR	4453	162 Owen	Te-2-9437	Rt. 2, East Bend, NC
Smithwick, John W.F. II	SR	3346	110 Welch	Te-2-6119	118 W. 7th St., Smithfield, NC
Smyth, William H.	SO	3025	207 Watauga	Te-2-9132	P.O. Box 84, Denton, NC
Snakenburg, John S.					Rt. 2, Lenoirburg, NC
Sned, Samuel E.	FR	4784	357 Tucker	Te-2-9323	403 W. Proctect Ave., Relford, NC
Sned, Younger F., Jr.	JR	3608	12 Syme	Te-2-9421	Raleigh, NC
Snell, Absalom W.	GR		824 Merrie Rd.	Va-8-9849	504 Ashe St., High Point, NC
Snider, Edgar H., Jr.	SO	15357	324-C Bragaw	Te-4-9253	Rt. 2, Lexington, NC
Snider, Jerry E.	SO	15077	215-B Bragaw	Te-2-9185	Rt. 1, Liberty, NC
Snider, Lloyd B.	SR	71	At. 1, Cary	Va-8-6578	Box 11, Welcome, NC
Snider, Thomas W.	JR		115 Hawthorne Rd.		621 Fayetteville Rd., Rockingham, NC
Snipes, Edward G.	FR	4716	249 Tucker	Te-2-9387	220 Hillsboro, Pittsboro, NC
Snipes, William P.	SR	15269	206-C Bragaw	Te-4-7547	Farrell St., Spray, NC
Snow, Mickey Dale	SO		A-13 Married Stu. Ho.		2507 Cherokee, Winston-Salem, NC
Snow, Robert E.	FR	4291	324 Turlington	Te-2-9192	942 W. Haven Blvd., Rocky Mt., NC
Snow, Silas J.	FR	4180	317 Alexander	Te-2-9349	2528 Barry St., Charlotte 5, NC
Snyder, Barbara L.	SR	5272	101 Chamberlain		12 Geiselsgaestelgrosse, Munich 9, Germany
Snyder, Charles G.	FR	4264	239 Turlington	Te-2-9297	1021 W. 4th St., Charlotte, NC
Snyder, Glenn H.	JR		J-25 Married Stu. Ho.		Windsor, Monroe, NC
Snyder, Herman F.	SR		1620 Hillsboro	Va-8-3323	Lyon St., Raleigh, NC
Soden, Robert D.	SO			Te-2-1231	Rt. 2, Whiteville, NC
Soles, John M.	SO	3893	1 Beeton	Te-2-9261	180 Spainhour, Morganton, NC
Somers, William F.	SR		101-B Chamberlain		221 Forest Ed., Raleigh, NC
Soots, Robert F., Jr.	GR				65 Coleman Ave., Asheville, NC
Sorrelle, Malcolm E.	JR		1720 Hillsboro	Te-4-0451	35 Poplar St., Fossil, NJ
Sorce, Sam J.		3383	317 Bagwell	Te-4-9151	P.O. Box 43, Gilkey, NC
Sorrelle, Clyde B.	FR	3815	13 Beeton	Te-2-9261	Box 175, Bryson City, NC
Sossamon, James Lee	FR	3609	12 Syme	Te-2-9421	Saluda, Va.
South, William D.	SO	3015	115 Watauga	Te-2-9447	1304 Gorman St., Raleigh, NC
Southerds, Carroll Jr.	GR			Va-8-2094	2715 Barnettler St., Raleigh, NC
Southern, William D.	FR			Te-3-1298	Box 406, Snow Hill, NC
Sowers, Joe E.	FR	4352	7 Stadium		Rt. 5, Reidsville, NC
Soyars, Ray Raymond G.	FR	4495	241 Owen	Te-2-9252	53-36 188St., Flushing 65, NY
Soyall, Orval	SO	5764	State Col. Stat.		Moustapha Hamel, Alexandria, Egypt
Spahl, Mohamed Abdel-Hamid	FR	5771	1300 Brooks Ave.	Te-2-3042	RPD 11, Waverly, Va.
Spain, Milton F.	JR		Bragaw		34 Shepherd St., Raleigh, NC
Spainhour, Roy Lee	SR			Te-2-0951	Riverside Dr., Morganton, NC
Spake, Yates E., Jr.	JR		3100 Raymond St.	Va-8-5801	Lockley Hall, Lillian, Va.
Spalding, Basil D. III	FR	4226	129 Turlington	Te-4-9279	Box 142, Shelby, NC
Spangler, Larry E.	JR		7 Dixie Tr.	Te-4-7169	Rt. 5, Shelby, NC
Spangler, Ray W.	SR	3517	117 Syme	Te-2-9288	108 Webb St., Gastonia, NC
Sparks, Berel Ray	SO	4433	139 Owen	Te-2-9473	Rt. 4, Box 57, Bakersville, NC
Sparks, Barrell	SR		52 Dixie Ave.	Te-3-3686	Rt. 4, Charlotte, NC
Sparrow, Charles A.	JR		1709 Hillsboro	Te-3-6901	145 Chesnut Rd., Lexington, Ky.
Speaks, Jon G.	SO	15277	210-C Bragaw	Te-4-9123	P.O. Box 244, Madison, NC
Spear, Forrest A.	SO		520 Elm St.		Tobaccoville, NC
Speas, Larry E.	SO				Sunbury, NC
Speight, Edwin P.	FR		617 M. Blount St.	Te-2-4582	121 S. Poplar St., Winston-Salem, NC
Speight, John P.	FR		2609 Clark	Te-3-4542	337 Cedar St., Suffolk, Va.
Speight, Robert E.	FR	3726	126 Beeton	Te-2-9256	Box 23, Hookerton, NC
Speight, Walter M.	SO	4429	124 Turlington	Te-4-5290	505 Collett, Morganton, NC
Sfeir, Rawley G.	FR	3784	316 Beeton	Te-2-9373	Autryville, NC
Spell, William E.	JR	3305	105 Bagwell	Te-4-9219	1600 Cornwallis Dr., Greensboro, NC
Spence, James T.	SO		1408 Hillsboro	Te-2-5745	918 Marvin Dr., Concord, NC
Spence, William M.	SO	5566		Te-4-8427	422 Hawthorne La., Wallingford, Pa.
Spencer, Edwin V.	SO	15197	308-C Bragaw	Te-4-9253	511 S. James St., Raleigh, NC
Spencer, George E.	FR				Raleigh, NC
Spencer, James H.			990 Wilm. Terr.		598 Hunter St., Madison, NC
Spencer, Randall W.	FR	4448	138 Tucker	Te-2-9388	232 Belle St., Henderson, NC
Spencer, Robert E.	FR	4525	308 Owen	Te-4-9836	West F. St., Newton, NC
Spencer, Ronald Lee	FR	4426	121 Owen	Te-2-9473	1820 Townsend Ave., Charlotte, NC
Spencer, Virgil Stewart	SO	15409	424-B Bragaw	Te-4-9754	Rt. 2, Box 188, Elkin, NC
Spicer, James E.	FR	4542	327 Owen	Te-4-8936	Rt. 1, Box 22, Tabor City, NC
Spivey, Douglas W.	UN	15098	225-C Bragaw	Te-2-9185	Rt. 1, Cary, NC
Spivey, Adward L.	SO		421 Tr. Haven		1217 Beech Haven Rd. N.E., Atlanta 5, Ga.
Spotts, James W.	FR	15270	284-B Bragaw	Te-4-9123	Carsonville, NC
Spurgeon, George E.			6309 Hillsboro Rd.	Te-4-9279	1506 Poplar St., Charlotte, NC
Spratt, John E.	FR	4442	151 Owen	Te-4-9367	3009 Collier, Greensboro, NC
Springer, Arthur D.	FR	4643	151 Tucker	Te-2-9367	900 Brookside Dr., Charlotte, NC
Springer, Carroll W.	FR	3744	206 Beeton	Te-2-9334	400 Third St., Cary, NC
Spruill, Joseph L.	SR			Te-2-9334	200 Advertiser Tr., Newport News, Va.
Spruill, Mervin L.	FR	3516	110 Bagwell	Te-4-9123	

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Stacey, Robert A.	GR			Te-4-8698	2306 Van Dyke Ave., Raleigh, NC
Stadler, David E.	SO		4700 Hillsboro	Te-2-9763	Rt. 1, Box 517, Burlington, NC
Stafford, Donald B.	SR	15271	208-A Bragaw	Te-4-9123	Rt. 1, Kernersville, NC
Stafford, Jacob A.	SO	4540	325 Owen	Te-4-9300	Rt. 3, Elizabeth City, NC
Stalkidie, Vassilio John					2350 Grant Ave., Raleigh, NC
Stainback, Joseph W.			2716 Van Dyke		Rt. 3, Box 343, Henderson, NC
Stainback, Kenneth M.	JR	15315	304-B Bragaw	Te-4-9253	Rt. 1, Elon College, NC
Stainback, Ronald E.	FR	4512	261 Owen	Te-2-9252	Middleburg, NC
Stalcup, William E.	SR		F-14 Married Stu. Ho.		Jrasstown, NC
Stalcup, Winston C.	SO	15252	124-B Bragaw	Te-2-9180	Rt. 2, Murphy, NC
Stall, Nelson B.	SR	181	Rt. 1, Cary	Te-3-5977	962-11th St., Newport News, Va.
Stallings, Arthur W.	JR		Rt. 1, Cary	Te-4-1693	Rt. 1, Raleigh, NC
Stallings, Charles H.	SO	3252	204 Welch	Te-2-9119	Box 49, Walterboro, SC
Stallings, David W.	GR	15279	212-A Bragaw	Te-4-9123	112 June St., Thomasville, NC
Stallings, Ernest M.	GR	45211	209 Fatterson Hall	ext. 291	217 Gray St., Cary, NC
Stallings, Larry N.	FR	3566	302 Syme	Te-2-9222	Rt. 2, Selma, NC
Stallings, Lester R.	FR	4800	50 Tucker	Te-4-9300	Rt. 7, Germantown, Winston-Salem, NC
Stallings, Robert L.	FR	4551	337 Owen	Te-2-9372	Gibsonville, NC
Stalls, Melvin C., Jr.	FR	3800	332 Becton	Te-2-9372	Rt. 1, Jamesville, NC
Stalaker, Clair B.	GR		O Logan Ct.	Va-8-6616	501 W. Main St., West Union, W. Va.
Stamey, Arthur W.	SR		125 Hawthorne Rd.	Te-2-1283	510 Lindsay St., High Point, NC
Stamey, David M.	JR	3517	117 Syme	Te-2-9288	Folkville, NC
Stamm, Alfred J.	SO			Te-2-5170	3212 Wayne St., Raleigh, NC
Stanback, Charles R., Jr.	FR	3029	211 Watauga	Te-2-9132	1710 Fayetteville, Durham, NC
Stancil, James A.	SR	4106	107 Alexander	Te-2-9257	Box 96, Hoffman, NC
Stancil, Kermit J.	SO	3577	313 Syme	Te-2-9222	Rt. 2, Kenly, NC
Stancil, William A.	SO	15320	306-C Bragaw	Te-4-9253	321 S. Howell St., Rocky Mt., NC
Stanford, Charles H., Jr.	SR			Va-8-5064	420 1/2 Cutler St., Raleigh, NC
Stanford, Gary L.	FR	4437	145 Owen	Te-2-9115	Box 402, Sylva, NC
Stanley, Albert J.	FR	4237	207 Turlington	Te-2-9297	1712 Brenner, Salisbury, NC
Stanley, Charles F.	SO			Te-4-0028	115 Georgetown Rd., Raleigh, NC
Stanley, D. Leighton					
Stanley, Jack Walter	FR	4535	320 Owen	Te-4-9300	1505 Textile Dr., Greensboro, NC
Stanley, John W.	SO	4531	316 Owen	Te-4-9300	2748 Sink St., Winston-Salem, NC
Stanley, Nancy W.	GR			Te-4-0028	115 Georgetown Rd., Raleigh, NC
Stanley, Thomas E.	FR	15074	215-D Bragaw	Te-2-9185	Hayesville, NC
Stanley, William D.	GR	3229	305 Gold	Te-2-9263	RFD 1, Box 81, Bladenboro, NC
Stanley, William F.	SR		116 St. Mary's St.	Te-3-5915	1906 West Road, Kinston, NC
Stanley, Willie L., Jr.	SO		125 Hawthorne Rd.	Te-2-1183	306 W. 2nd Ave., Lexington, NC
Stansel, Benjamin C.	JR		211 Park Ave.		RFD 5, Lumberton, NC
Stanton, John E.	SR		917 New Bern Ave.	Te-2-1365	425 Kismet St., Carnegie, Pa.
Stanton, Richard I.	SO		507 YMCA		8 Cottage La., Springfield, NJ
Starke, Francis M.	FR		1066 Nichols Dr.	Te-3-8309	Rt. 1, Box 406, McLeansville, NC
Starling, Donald D.	FR		2316 Hillsboro		253 E. Lebanon, Mt. Airy, NC
Starliper, Ronald L.	SR	10032	2320 Clark		Raleigh, NC
Starnes, John P.	JR			Te-4-1988	2820 Everett Ave., Raleigh, NC
Starnes, Lavon W.	SO		2718 Clark	Te-2-6451	587 Morning St., Worthington, Ohio
Starnes, Milton S.	SR	3724	123 Becton	Te-2-9256	Rt. 1, Hudson, NC
Starnes, Richard L.	JR		116 Hawthorne Rd.	Te-2-8406	520 Valley St., Hendersonville, NC
Starr, Peter P.	FR	4417	122 Owen	Te-2-9473	113 N. Market St., Shenandoah, Pa.
Staton, Boyce R.	FR	4637	126 Tucker	Te-2-94289	1511 S. 4th St., Wilmington, NC
Staton, Raymond C., Jr.	SO	3524	124 Syme	Te-2-9288	723 Fifth Ave. W., Hendersonville, NC
Steagall, David J.	SO	5665	2514 Clark	Te-3-4522	1220 Bethel Rd., Charlotte, NC
Stearns, Cecil E.	SR		Uk-35 Verville	Te-4-4519	2214 St. Mary's St., Raleigh, NC
Steed, Boyd C., Jr.	SR			Ho-7-9430	W&L Tr. Haven, Cary, NC
Steele, Bayne G.	JR		132 1/2 Mordecai Dr.		Box 335, Burlington, NC
Steele, Basil Edward			2232 Hillsboro	Te-3-8716	711 S. Broadway, Forest City, NC
Steele, James F., Jr.	SO	3352	220 Bagwell	Te-2-9131	204 Russell Rd., Alexandria, Va.
Steele, John H.	SO	15402	420-C Bragaw	Te-4-9754	114 Abernathy St., Lenoir, NC
Steelman, Harold M., Jr.	SO	3559	227 Syme	Te-2-9150	608 Follock, Kinston, NC
Steelman, Harvey L.	So	4592	58 Owen	Te-2-9142	Rt. 3, Box 160, Kannapolis, NC
Steen, Lynn F.	FR	4339	6 Berry	Te-2-9350	Rt. 1, Box 298, Hamlet, NC
Stegall, Harold A.	SR		104 Pogue St.	Va-8-2006	Rt. 1, Warrenton, NC
Stein, Gerald A.	JR	3243	107 Welch	Te-2-9119	104 W. Blandwood Dr., Rocky Mt., NC
Steinbach, Roger K.					
Steinberg, David R.	SO		304 E. Park Dr.	Te-2-7638	316 McAllister, Fayetteville, NC
Steinberg, Robert M.	FR	4801	51 Tucker	Te-2-9146	828 Addison St., Woodmere, NY
Steinhoff, Raphael J.	GR		2717 Vanderbilt	Te-2-2126	724 N. 22nd St., LaCrosse, Wis.
Steljes, Robert C.	FR			Va-8-5131	902 1/2 Brooks Ave., Raleigh, NC
Stenhouse, Michael H.	FR	4273	311 Turlington	Te-2-9192	1323 Townes Rd., Charlotte, NC
Stephanakis, Stavros J.	SO	3519	119 Syme	Te-2-9288	Tenedou 45, Athens, Greece
Stephens, Chester L.	SO		3213 Copley Dr.	Te-3-2427	Elizabeth City, NC
Stephens, Harold D.	FR	4137	205 Alexander	Te-4-9746	Rt. 2, Box 328, Connell Springs, NC
Stephens, James A.	SR			Te-3-4405	5701 Waycross St., Raleigh, NC
Stephens, James K.	FR	3326	126 Bagwell	Te-4-9219	1018 Wellington, High Point, NC
Stephens, John L.	JR		318 Cutler St.		Rt. 2, Lillington, NC
Stephens, Joseph E.	FR	4293	331 Turlington	Te-2-9192	305 W. 11th St., Wilmington 1, Del.
Stephens, Ralph E.			908 Marilyn Dr.		125 Burkemont, Morganton, NC
Stephens, Robert A.	FR		318 W. Cutler St.		Rt. 2, Lillington, NC
Stephenson, James C.	SR			Te-2-4459	2005 Glenwood Ave., Raleigh, NC
Stephenson, John W.	FR	4110	115 Owen	Te-2-9437	Rt. 1, Willow Springs, NC
Stephenson, John W., Jr.	GR			Te-3-5991	405 W. Aycock St., Raleigh, NC
Stephenson, Michael J.	SO	4508	257 Owen	Te-2-9252	1000 Gordon St., High Point, NC
Stephenson, Ralph A.	FR	4795	48 Tucker	Te-2-9252	Country Club Apts., Greensboro, NC
Stephenson, Roy V.	JR			Te-2-7083	701 Dixie Tr., Raleigh, NC
Stephenson, Thomas W.	JA	1540	425-C Bragaw	Te-4-9757	600 W. Main St., Benson, NC
Stephenson, Thomas C.					RFD 1, Holly Springs, NC
Stepp, Michael R.	SO	15017	109-A Bragaw	Te-2-9129	7 Fine St., Canton, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Stevens, Grady H.	FR	4710	240 Tucker	Te-2-9387	812 S. Adams Dr., Gastonia, NC
Stevens, John F.	SR	5667	1620 Hillsboro	Te-2-9531	Box 632, Erwin, NC
Stevens, John G.	SO	15150	325-B Bragaw	Te-4-9179	591 Jacksonville Rd., Mt. Holly, NJ
Stevens, Keith B.	FR	3346	214 Bagwell	Te-2-9131	RFD 3, Loris, SC
Stevens, Robert L.	SR	15025	115-A Bragaw	Te-2-9129	Deepwood Ct., Winston-Salem, NC
Stevens, Martha J.	GR			Te-2-7502	1615 Hillsboro, Raleigh, NC
Stevens, Thomas H.	SO	15260	202-B Bragaw	Te-3-2212	Lakewood Rd., Lenoir, NC
Stevenson, Charles G.	FR	3522	122 Syme	Te-2-9288	Falmoro, NC
Stevenson, James F.	JR	3600	4 Syme	Te-2-9421	Falmoro, NC
Stewart, Elizabeth T.	UN		961 St. Mary's St.	Te-4-8741	209 Hibriten Ave., Lenoir, NC
Stewart, George C.	JR		2729 Everett Ave.		Maners, NC
Stewart, James E.	SR			Te-3-6143	813 Wilmington Terr., Raleigh, NC
Stewart, Joe J.	GR		4-306 Married Stu. Ho.		State Col. Stat.
Stewart, John G.	JR		961 St. Mary's St.	Te-4-8741	1016 W. Sherwood, Gastonia, NC
Stewart, Kermit H.	SO			Te-2-5688	B-5 Shelton Apts., Raleigh, NC
Stewart, William T.	SR				120 Cox Ave., Raleigh, NC
Stickey, Richard H.	SR			Te-3-6280	403 Chamberlain St., Raleigh, NC
Stikeleather, Larry F.	FR	4465	208 Owen	Te-2-9410	Rt. 1, Stony Point, NC
Stikeleather, Wade E.	FR	4467	210 Owen	Te-2-9410	Rt. 1, Stony Point, NC
Stimpson, Robert T.	FR	4457	167 Owen	Te-2-9115	245 Fairfax, Winston-Salem, NC
Stimson, Lloyd K.	SR		943 Wilmington Terr.		20 Knight St., Milford, NH
Stines, Billy Jr.	GR		112 Patterson Hall	Te-3-2454	Rt. 4, Piney Plain Rd., Raleigh, NC
Stinson, Edward L.	FR			Te-4-3834	1086 Horne St., Raleigh, NC
Stipp, Charles C.	FR	3034	307 Watauga	Te-2-9488	32 N. Woods Rd., Lanesassett, NY
Stockard, Ralph R.	SR	3710	110 Becton	Te-2-9256	410 Albright Ave., Graham, NC
Stoker, Joel W.	FR	4464	207 Owen	Te-2-9410	108 Ludlow, Albemarle, NC
Stoker, Lindell G.	FR	15152	405-B Bragaw	Va-8-6547	108 Ludlow, Abemarle, NC
Stokes, Clifford F.	SO		2132 Hillsboro	Te-3-6362	3631 Park Rd., Charlotte 9, NC
Stokes, William J.	JR	15234	112-D Bragaw	Te-2-9180	Rt. 3, Box 577, Greenville, NC
Stone, Charles A. III	SR	4497	245 Owen	Te-2-9410	132 Salisbury, Kernersville, NC
Stone, Charles J.				Te-3-6900	UK-45 Verville, State Col. Stat.
Stone, James K.	SR				3006 Leonard St., Raleigh, NC
Stone, John Greenville	JR		2718 Clark	Te-2-6451	702 Silver Ave., Greensboro, NC
Stone, Louis H.			1720 Hillsboro		704 E. Blvd., Charlotte, NC
Stone, Paul S.	PAC		220 Patterson Hall	Ext. 306	1405 Ashburton Rd., Raleigh, NC
Stoneypher, Roy W.	GR			Va-8-6364	UK-21 Verville, Raleigh, NC
Stoner, James E., Jr.	FR	4295	335 Turlington	Te-2-9192	Rt. 3, Box 217-A, Concord, NC
Stott, Parker L.	JR		2907 N. Blvd.	Te-4-2015	Rt. 1, Bailey, NC
Stoudemire, Stewart M.	FR	3391	325 Bagwell	Te-4-9151	Rt. 3, Lincolnton, NC
Stout, David Lee	FR	4184	321 Alexander	Te-2-9349	Rt. 3, Box 326, Durham, NC
Stout, Garland H.	SR	3804	2 Becton	Te-2-9261	1209 Hill St., Greensboro, NC
Stout, Thomas C.	SR			Te-2-8736	803-B Daniels St., Raleigh, NC
Stowe, Arthur R.	FR	3005	105 Watauga	Te-2-9447	3336 Granville Dr., Raleigh, NC
Stradley, Thomas F., Jr.	SR	15297	220-D Bragaw	Te-4-9123	504 Bigham Rd., Pittsburgh 11, Pa.
Strange, George L.	SO		203 Hillcrest		3008 Collier Dr., Greensboro, NC
Stratton, George F., Jr.	SO	15117	309-B Bragaw	Te-4-9179	911 Grove St., Charlotte, NC
Strauss, Ralph J.	GR		17 Enterprise	Te-4-6510	2219 6A St., Brooklyn, NY
Strawbridge, James E.	FR	4336	3 Berry	Te-2-9350	221 Dacian Ave., Durham, NC
Strawn, Dale H.	JR		2919 Wade Ave.	Te-4-0023	3645 Dresdes Dr., Charlotte, NC
Strawn, Harry B.	JR	15376	408-B Bragaw	Te-4-9754	Rt. 3, Monros, NC
Stredler, Steven A.	FR	4255	227 Turlington	Te-2-9297	526 N. Little Creek Rd., Norfolk, Va.
Strickland, Daniel Z.	SO	3115	105 Fourth	Te-2-9159	409 S. 13th St., Erwin, NC
Strickland, Edward G.	SR				704 Pineview Ave., Goldsboro, NC
Strickland, Roderick Paul	FR	3346	214 Bagwell	Te-2-9131	Rt. 4, zebulon, NC
Strickland, Roger F., Jr.	FR	4679	206 Tucker	Te-4-9828	Rt. 2, Bailey, NC
Strickland, Silas E., Jr.	SR		719 Chamberlain	Te-4-3910	715 Arlington St., Rocky Mt., NC
Strickland, Vernon L.	JR	15245	120-C Bragaw	Te-2-9180	Rt. 2, Oxford, NC
Strobel, Roger W.	FR			Va-8-2388	725 Mills St., Raleigh, NC
Strong, Lewis M.	SO			Te-3-9004	2714 Cooleense Dr., Raleigh, NC
Stroud, Richard S.	SO	15304	224-C Bragaw	Te-4-9123	609 Terrace Dr., Ayden, NC
Stroupe, Harold D.	JR		2212 Hope St.	Te-2-4372	1401 Westbrook Cir., Gastonia, NC
Stuart, Archie D.				Te-4-0359	1435 Duplin Rd., Raleigh, NC
Stuart, Barry W.	JR			Va-8-6723	707-B Daniels St., Raleigh, NC
Stuart, Fern D.					Rt. 3, Box 577, Raleigh, NC
Stuart, Jay C.	JR		125 1/2 Woodburn Rd.	Te-3-6901	Box 167, Elkin, NC
Stubbins, George E.	JR		16 N. Boylan Ave.	Te-2-4073	4108-A Walker Ave., Greensboro, NC
Studley, Donald M.	JR		304 E. Park Dr.	Te-4-9230	134 Hewlett Hk. Rd., Woodmere, NY
Sturgess, John H.	JR	3754	220 Becton	Te-2-9334	520 Sunset Ave., Rocky Mt., NC
Sturiale, Louis A.	GR		908 W. Johnson St.	Te-2-2143	620 Falls Rd., Rocky Mt., NC
Sturtevant, Richard C.	GR		2343 McNullan Cir.	Va-8-9884	Warren Gardens, Pelham, NY
Stutte, Jimmie A.	JR		2713 Bedford Ave.	Te-3-4548	Robbins, NC
Styons, William R.	SO			Te-3-7545	2304 Van Dyke Ave., Raleigh, NC
Styron, Bobby W.	SR	3117	107 Fourth	Te-2-9159	Stacy, NC
Su, Cheh-Jen			2726 Clark		250 Sachion 3, Roosevelt Rd., Taipei, Taiwan, China
Sucher, William P.	FR	4436	143 Owen	Te-2-9115	810 Bryant St., Woodmere, NY
Suddreth, Charles N.	SR		310 N. Person	Te-4-3505	Rt. 6, Box 22, Morganton, NC
Suessmann, Kenneth W.	JR	15106	303-C Bragaw	Te-4-9179	554 Rose Blvd., Baldwin, NY
Sugge, Edna G.	JR	2512	2512 Vanderbilt	Te-4-8656	Rt. 2, Rocky Mt., NC
Sugge, Thomas M.	SO		105 E. West St., Cary	Ho-7-9270	Cary, NC
Suitt, Clifton B.	FR	4217	120 Turlington	Te-4-9279	1432 Cyrus Dr., Charlotte, NC
Sulecki, Anthony J.	FR	4558	347 Owen	Te-4-9831	1443 Conroy St., McKees Rocks, Pa.
Sullivan, Gene A.	SR	15157	403-A Bragaw	Te-4-9757	Rt. 3, Selma, NC
Sullivan, Henry J.				Te-4-9529	Rt. 5, Timberlake, Raleigh, NC
Sullivan, James J.					Rt. 1, Hobgood, NC
Sullivan, Robert A.	JR	5667	125 Hawthorne Rd.	Va-8-7323	176 N. Columbus St., Arlington, Va.
Sullivan, William A.	FR	4680	207 Tucker	Te-4-9828	Lakeview, Blowing Rock, NC
Sullivan, William T.	FR	4147	218 Alexander	Te-4-9746	535 Margaret Dr., Statesville, NC
Summer, Garry L.	JR	15175	411-C Bragaw	Va-8-6753	305 S. Elm St., Cherryville, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Summers, James D.	JR	4168	302 Alexander	Te-2-9349	Westridge Rd., Greensboro, NC
Summers, James E.	SR		2160 Mayview Rd.	Va-8-2645	319 Apple St., Gibsonville, NC
Summey, William J.	SR		4700 Hillsboro	Te-2-9252	Rt. 1, Dallas, NC
Sumner, Howard D.	SO	15016	107-D Bragaw	Va-8-6889	72 1/2 Gracelyn Rd., Asheville, NC
Sumner, Joseph A.	GR				Rt. 1, Smithfield, NC
Sumner, William A.	SR		1509 Hillsboro	Te-4-2556	502 Overbrook Dr., High Point, NC
Sunrell, Mary A.					407 S. 2nd St., Smithfield, NC
Sunderland, Gary E.	PROF		0-23 Married Stu. Ho.		26 Warlick St., Jacksonville, NC
Surbeck, David A.	FR	3751	217 Beeton	Te-2-9334	829 Bowman Av., Wynwood, Pa.
Sutton, James A.	SR	3579	315 Syme	Te-2-9222	408 E. Guilford St., Thomasville, NC
Sutton, James W.	SO		127 Syme	Te-2-3512	109 Chamberlain St., Raleigh, NC
Sutton, Joseph A.	FR	4122	127 Alexander	Te-2-9257	201 Cumberland, Asheville, NC
Sutton, Marvin B., Jr.	SO	5276	YMCA	Te-3-6901	5905 Tuckaseegee Rd., Charlotte 8, NC
Sutton, Michael D.	SR			We-4-2581	304 Church St., Smithfield, NC
Swain, Tommy C.	JR	4681	208 Tucker	Te-2-9387	Cycle, NC
Swain, David W.	SO	3005	105 Watauga	Te-2-9447	1516 Jarvis St., Raleigh, NC
Swain, Edward M.	JR	3018	118 Watauga	Te-2-9447	1107 W. Church St., Elizabeth City,
Swain, Thomas T.	FR	4522	310 Owen	Te-4-9300	2604 Saddle Club Rd., Burlington, NC
Swank, John D. II	SO	4324	304 Berry	Te-2-9367	2002 3rd St., Pittsburgh 25, Pa.
Swann, James F.	SO	3553	221 Syme	Te-2-9150	389 Macon Ct., Morehead City, NC
Swann, Thomas F., Jr.	FR	3756	116 Beeton	Te-2-9256	P.O. Box 681, Elizabethtown, NC
Swanson, Eric W.	SR	4108	111 Alexander	Te-2-9257	1417 Powell Dr., Raleigh, NC
Swanson, John F.	GR			Te-4-2882	1029 Nichols Dr., Raleigh, NC
Swanson, Oliver A., III	SR		1209 Chaney Rd.	Te-3-7804	Filott Mtn., NC
Swanson, Robert R.	FR	15060	205-D Bragaw	Te-2-9185	221 S. Oakland, Gastonia, NC
Swart, Robert S.	JR	71	Rt. 1, Cary		P.O. Box 838, Wilmington, NC
Sweet, Floyd B.	GR			Va-8-9859	3308 Avert Ferry Rd., Raleigh, NC
Swindell, Charles A.	FR	3015	115 Watauga	Te-2-9447	1211 Cowper Dr., Raleigh, NC
Swing, William D.	SO	5545	222 Hillcrest		P.O. Box 1343, Kannapolis, NC
Sykes, Edwin T.	FR	3308	108 Bagwell	Te-4-9219	Rt. 1, Yanceyville, NC
Sykes, Paul W., Jr.	SR	15005	103-A Bragaw	Te-2-9129	1522 Lafayette Blvd., Norfolk 9, Va
Synan, Owen W.	FR	3779	311 Beeton	Te-2-9372	418 Leon St., Durham, NC
Tabor, Robert L.	SR	5566		Te-4-8227	1106 Meade Dr., Greensboro, NC
Tadlock, William A.	JR		2716 Bedgord	Te-3-4374	RFD 4, Windsor, NC
Taebner, Richard C.	GR			Va-8-5297	UK-43, Vetsville, Raleigh, NC
Taft, Kingsley A., Jr.	GR			Ho-7-9746	707 Cornwall Rd., Cary, NC
Taher, Abdelfattah Mahmoud	GR	5805	1302 Filmore St.		Mag Hammadi, Egypt, UAR
Talbott, Glenn B.	SR	15337	314-D Bragaw	Te-4-9253	224 Wilson St., Albemarle, NC
Talbert, Lonnie A.	GR				27 Dixie Dr., Raleigh, NC
Talley, Windall L.	SO	4576	365 Owen	Te-4-9300	Rt. 2, Stanfield, NC
Talli, Abder Rahim A. Hamid			Forestry Sch.		Zerkas, Amman, Jordan
Tan, Kim-Hong			Soils Dept.		1809 Park Dr., Raleigh, NC
Tang, Helen	GR	5457	Raleigh		Cassila 10095, Santiago de Chile
Tang, Ing Mao	SO		2726 Clark	Te-3-1482	2 Li-shue St., Taipei, Taiwan
Tankard, John R. III	SO	3012	112 Watauga	Te-2-9447	2742 N. Wakefield St., Arlington, Va
Tanner, Charlie A., Jr.	FR	3021	203 Watauga	Te-2-9132	233 N. Norwood, Wallace, NC
Tanner, William J.	FR	4532	317 Owen	Te-4-9300	Box 231, Norlina, NC
Tapp, James L.	JR	4345	12 Berry	Te-2-9350	Rt. 4, Roxboro, NC
Tarim, Sukru T.	JR	5764	State College Sta.		Feiz Cakmak Sok 10/o, Ankara, Turkey
Tart, Jimmy C.	JR	7459	Stat. B, Raleigh	Te-2-7581	Rt. 2, Benson, NC
Tart, William G. Jr.	SR	58-A	McSwain Tr. Pk., Cary	Ho-7-9940	Rt. 2, Benson, NC
Tate, Charles A., Jr.	SO		3414 Hillsboro	Te-3-4808	9 Barnard Dr., Wilmington, NC
Tate, Charles L.	JR	4507	256 Owen	Te-2-9252	Chadborn, NC
Tate, Eugene M.	FR	4663	156 Tucker	Te-2-9388	229 Myrtle St., Wilmington, NC
Tate, Steven R.	FR	4363	18 Stadium		Rt. 1, Mooresboro, NC
Taylor, Albert L., Jr.	JR	4619	119 Tucker	Te-2-9388	1441 Peace, Henderson, NC
Taylor, Boyd F.	FR	4509	258 Owen	Te-2-9252	913 Meade Dr., Greensboro, NC
Taylor, Byron S.					Box 74, Dublin, NC
Taylor, Carl E., Jr.	SO	15265	204-C Bragaw	Te-4-9123	2428 Monroe St., Wilmington, NC
Taylor, Carl T.	FR	4171	305 Alexander	Te-2-9349	342 Moore Ave., Mt. Airy, NC
Taylor, Charles J.	FR	4171	305 Alexander	Te-2-9349	342 Moore Ave., Mt. Airy, NC
Taylor, Floyd Jr.	FR				1107 Brooks Ave., Raleigh, NC
Taylor, Francis D.	JR	15091	221-D Bragaw	Va-8-9590	Rt. 1, Box 294, Kinston, NC
Taylor, Fred W.	GR			Va-8-2989	2307 Barmettler St., Raleigh, NC
Taylor, George H.	JR		204 1/2 Pecan Rd.		226 Nash St., Rocky Mt., NC
Taylor, Glenn A.	SR		2504 Clark Ave.		Rt. 2, Whitekers, NC
Taylor, Henry C. III	SO	4341	301 Berry	Te-2-9263	P.O. Box 26, Louisburg, NC
Taylor, James A.	SR		18 1/2 Horne St.		807 W. St. James St., Parboro, NC
Taylor, James B.	FR	15220	110-D Bragaw	Te-2-9180	P.O. Box 487, Wadesboro, NC
Taylor, James F.	JR		1720 Hillsboro	Te-4-0451	Box 337, Aberdeen, NC
Taylor, James M.	FR	4424	129 Owen	Te-2-9437	629 Lindsey, Reidsville, NC
Taylor, Jerome B.	UN		2609 Clark	Te-2-1384	Rt. 2, Snow Camp, NC
Taylor, John A.		4312	205 Berry	Te-2-9363	226 Nash St., Rocky Mt., NC
Taylor, John T.	FR	3777	309 Beeton	Te-2-9372	North Shores, Washington, NC
Taylor, John Thomas	JR	4431	127 Owen	Te-2-9437	Rt. 1, Nashville, NC
Taylor, Larry H.	SR		200 Brooks Ave.	Va-8-5055	207 Broad St., Marion, NC
Taylor, Larry Joe	GR		2601 Clark	Te-2-8631	Rt. 1, Denton, NC
Taylor, Leonard F., Jr.	JR	15183	415-B Bragaw	Te-4-9757	Vanceboro, NC
Taylor, Lesslie A.	GR		13 Purches St.	Te-2-6452	209 N. 13th St., Wilmington, NC
Taylor, Luther Hill	JR	4632	121 Tucker	Te-2-9367	119 Live Oak Ave., Wilmington, NC
Taylor, Richard D.	SO	15049	201-B Bragaw	Te-2-9185	Rt. 2, Lenoir, NC
Taylor, Richard D.	SO		2618 Wade Ave.		1508 Overgreen, Goldsboro, NC
Taylor, Robert W.	JR		202 Ashe Ave.	Va-8-3236	Rt. 4, Franklin, NC
Taylor, Tillett K.					2702 Ashland St., Raleigh, NC
Taylor, Thomas A.	GR			Va-8-9853	UK-3 Vetsville, Raleigh, NC
Taylor, Thomas S.	FR	3245	109 Welch	Te-2-3119	Old Lilesville Rd., Wadesboro, NC
Taylor, Timothy W.	15373		406-C Bragaw	Te-4-9754	Box 463, Rockingham, NC
Taylor, Walter G.	SR		960 Wilmington Terr.		Rt. 4, Box 14, Lenoir, NC
Taylor, William A.	SO	3747	213 Beeton	Te-2-9334	1438 Queens Rd., Charlotte 7, NC
Taylor, Woodrow H.	SO		2718 Clark	Te-2-6451	Rt. 2, Reep Run, NC

Baylors, Zachary	SR	1906	Hillsboro	Te-4-6165	502 Wrightsville Ave., Wilmington, NC
Tchouros, Constantinos A.	GR		State Col. Sta.		P.O. Box 740, Manila, Philippines
Te Mariano Tan	GR	5804			Rose Hill, NC
Teaschey, James C.	SR	4298	340 Turlington	Te-2-9192	1313 Edgewood Knoll, Asheville, NC
Teague, Alan Lee	JR		2514 Clark	Te-3-4522	39 Falls Ave., Granite Falls, NC
Teague, David B.	GR		8 Ferndell	Te-2-1755	913 Unity St., Thomasville, NC
Teague, Donald E.	SO	15279	212-A Bragaw	Te-4-9123	417 Lushbridge Dr., Key Largo, Calif.
Teague, Hampton L.	SR	15138	319-B Bragaw	Te-4-3288	Rt. 1, Box 116, Hickory, NC
Teague, James E. III	FR	4669	162 Tucker	Te-2-9388	119 Fayetteville Rd., Rockingham, NC
Teal, Kenneth P.	FR	4581	47 Owen	Te-2-9142	204 Bona Rd., Knoxville, Tenn.
Teasley, R. Bruce	SR		1718 Hillsboro	Va-8-4464	RFD 2, Red Springs, NC
Tedder, Donald R.	GR	3745	211 Becton	Te-2-9334	15 Rosemary, Raleigh, NC
Tee Pin Pin	SO				825 Buffalo, Shelby, NC
Teele, Phillip M.	JR		2713 Everett Ave.	Te-3-1312	Rt. 3, Mooresville, NC
Teeter, John E.	FR	4345	11 Berry	Te-2-9350	
Teichman, Robert	GR		Box 5457, Raleigh		
Teigen, Finn R.	SR		1606 Benehan St.		
Temple, Alton L.	FR		905 W. Peace St.	Te-4-4288	Box 110, Steinlejer, Norway
Temple, Herman L.	SO	4319	212 Berry	Te-4-0545	Raleigh, NC
Temple, Ralph B.	SR	3125	207 Fourth	Te-2-9363	627 Dune St., Norfolk, Va.
Terman, Elliott J.	FR	4772	343 Tucker	Te-2-9159	Box 128, Newport, NC
Terrell, Joseph W. III	FR	3354	222 Bagwell	Te-2-9323	107-57 123 St., Richmond Hill 19, NY
Terry, Marshall R.	FR	3556	224 Syme	Te-2-9131	2131 Chambwood Dr., Charlotte, NC
Terry, Thomas A., Jr.	FR	4587	53 Owen	Te-2-9150	617 N. Fourth St., Albemarle, NC
Tesh, George W., Jr.	FR	4622	109 Tucker	Te-2-9142	205 White St., Savannah, Tenn.
Teshon, Ralph W.	FR	4791	364 Tucker	Te-2-9367	Rt. 4, Lexington, NC
Testament, Thomas L.	FR	4560	349 Owen	Te-2-9323	297 S. Irving, Ridgewood, NJ
Tetterton, Claudius D.	JR	15397	418-B Bragaw	Te-4-9836	322 Byrd St., Harriman, Tenn.
Tetterton, Darrell G.	SO	15113	307-B Bragaw	Te-4-9754	711 Traver Ave., S. Boston, Va.
Tew, Henry L.	FR	3789	322 Becton	Te-4-9179	711 Traver St., S. Boston, Va.
Thacker, Samuel E.	FR	3311	111 Bagwell	Te-2-9372	905 N. Ellis Ave., Dunn, NC
Thakrar, Hemraj K.	SR	5806	State Col. Stat.	Te-4-9219	Rt. 1, Summerfield, NC
Thames, Brown D., Jr.	JR			Te-3-3086	Uganda Rd., Forbendar, Candia
Thames, William S.	SO			Te-3-9072	1620 Bickett Blvd., Raleigh, NC
Tharpe, Otto D.	SR	5667	1620 Hillsboro	Te-2-9531	1620 Bickett Blvd., Raleigh, NC
Tharrington, Bertha J.	JR		2902 2 Everett Ave.	Te-2-9901	433 S. Race St., Statesville, NC
Tharrington, Williams H.	SR		2902 2 Everett Ave.	Te-3-9901	1209 W. Thomas, Rocky Mt., NC
Thayer, Thomas A.	FR	4189	326 Alexander	Te-2-9349	P.O. Box 868, Rocky Mt., NC
Thigpen, John M.	SO	15340	316-B Bragaw	Te-4-9253	10 Oakwood Dr., Chapel Hill, NC
Thomas, Baxter L.	JR	5276	State Col. Stat.	Te-2-7184	Box 93, Mt. Olive, NC
Thomas, Calvin J.	SR			Te-3-2651	225 Hovis Cr., Charlotte, NC
Thomas, Charles B.			J-21 Married Stu. Ho.		Rt. 4, Raleigh, NC
Thomas, Charles R.	SO		21 Enterprise St.	Te-4-2815	Weldon, NC
Thomas, Edward S.	FR	4599	65 Owen	Te-2-29142	49 Park Ave., Concord, NC
Thomas, Georgia M.	JR	42	Varina, NC	Mu-7-4769	411 Rauhut, Burlington, NC
Thomas, Gerald Kent	FR	4730	263 Tucker	Te-2-9387	
Thomas, Graham J.	SO	4641	130 Tucker	Te-2-9367	3135 E. Ford Rd., Charlotte, NC
Thomas, Jimmie B.	JR				302 Huff Cir., Winston-Salem, NC
Thomas, John A.	JR		1611 Van Dyke Ave.	Te-3-9747	Highland Ave., Salisbury, NC
Thomas, John C.	SO	4624	112 Tucker	Te-2-9367	Rt. 1, Leaksville, NC
Thomas, John M.	FR	4123	128 Alexander	Te-2-9257	Rt. 3, Thomasville, NC
Thomas, Johnie D.	SR	15015	107-C Bragaw	Te-2-9129	Box 8056, Asheville, NC
Thomas, Joseph E.	SO	4409	114 Owen	Te-2-9437	Rt. 7, Box 806, Sanford, NC
Thomas, Mitchell H., Jr.	GR		3304 Dunn Ave.	Te-4-7400	Ernul, NC
Thomas, Phil Ray	SO	4510	259 Owen	Te-2-9252	Box 148, Mullins, SC
Thomas, Robert E.	FR	3554	222 Syme	Te-2-9150	Bakersville, NC
Thomason, Eddie Lee, Jr.	GR		301 Folk Hall	Va-8-3063	Rt. 1, Moncure, NC
Thomason, George L.	SR			Te-2-7158	3811 Greenleaf, Raleigh, NC
Thomason, Thomas W., Jr.	SO	4120	125 Alexander	Te-2-9257	1905 Clark, Raleigh, NC
Thomasson, Samuel J. III	SR	3257	209 Welch	Rt. 1, Box 370, Salisbury, NC	
Thomasson, Worth B., Jr.	SR		411 1 N. Blount St.	Te-2-9119	122 Ellington, Fayetteville, NC
Thompson, Albert G., Jr.	SO	15373	406-C Bragaw	Te-4-9754	Rt. 6, Lexington, NC
Thompson, Bess J.					Box 266, W. Main St., Forest City, NC
Thompson, Charles B., Jr.	SO	3242	106 Welch	Te-2-9119	1817 W. Smallwood Dr., Raleigh, NC
Thompson, Charles M.	SO	3251	303 Welch	Te-2-9119	1801 Rhem Ave., New Bern, NC
Thompson, Charles M.	FR		McSwain Mobile Ho. Ct.		P.O. Box 1096, Black Mtn., NC
Thompson, Clarence M.	FR			Te-4-4875	14 Westover Dr., Asheville, NC
Thompson, Dale E.	FR		2602 Clark	Te-2-8221	800 N. King Charles Rd., Raleigh, NC
Thompson, Earl R.	GR		D-23 Married Stu. Ho.	Te-3-0805	1017 Peace Haven, Winston-Salem, NC
Thompson, Frank H.	JR		308 Horne St.	Te-2-7050	615 Beaverdam, Raleigh, NC
Thompson, Harold E.	FR	4158	229 Alexander	Te-4-9746	Box 68, Stantonsburg, NC
Thompson, James F. III	FR	4538	323 Owen	Te-4-9300	101 Ayden, Spray, NC
Thompson, Leonard W.	FR			Te-3-2155	RFD 1, Fairmont, NC
Thompson, Linwood F.	JR			Te-4-8568	414 Bickett Blvd., Raleigh, NC
Thompson, Max F.	SO	3239	103 Welch	Te-2-9119	3431 Bradley Pl., Raleigh, NC
Thompson, Michael M.	FR	4524	307 Owen	Te-4-9300	Box 76, Aurora, NC
Thompson, Robert B.	SO			Te-2-7843	606 Courtland, Greensboro, NC
Thompson, Roy C.	FR		116 Hawthorne Rd.	Te-2-8406	1702 Dare St., Raleigh, NC
Thompson, Samuel M.	FR	5783	315 Becton	Te-2-9372	P.O. Box 124, Saluda, NC
Thompson, William P.	UN			Te-2-9372	Rt. 2, Spruce Pine, NC
Thome, Kenneth R.	SO	4329	309 Berry	8-2907	911 Carver St., Durham, NC
Thore, David L.	JR		2144 Hayview Rd.	Te-2-9363	270 Holt Dr., Pearl River, NY
Thorn, Robert H.	JR		308 Horne St.	Te-3-9707	Rt. 4, Martinsville, Va.
Thorn, William A., III	SO	15120	311-A Bragaw	Te-2-7050	2721 Van Dyke, Raleigh, NC
Thornburg, Tom G.	SO	5566		Te-4-9179	708 N. Highland Dr., Morristown, Tenn.
Thorne, John C.	UN		2255 Circle Dr.	Te-4-8227	Spencer Dr., Concord, NC
Thornes, Kenneth M.	SR		222 Hillcrest Rd.		2255 Circle Dr., Raleigh, NC
Thornton, William E.	SR		2512 Clark	Te-2-3429	210 Clifton Rd., Rocky Mt., NC
Thoroughgood, James A.	FR			Te-2-4843	220 Rhue St., Ahoskie, NC
Thresher, Arthur J.	FR	4716	249 Tucker	Te-3-1701	611 Beaver Dam Rd., Raleigh, NC
Thurstone, Fredrick L.	GR			Te-2-9387	Rt. 2, Rockingham, NC
Thurstone, Robert L.	GR			Te-2-4196	5228 Melbourne Rd., Raleigh, NC
Tibbitts, Loren J.	GR		602 Stacy St.		400 Laurel Hill Rd., Chapel Hill, NC
Tice, Robert Glenn, Jr.	SO		203 Groveland	Te-2-1619	3161 26 St., Sacramento, Calif.
					1300 Norven Rd., Wadesboro, NC

NAME	YR	BOX	COLLAGE ADDRESS	TELEPHONE	HOME ADDRESS
Tickel, William H.	SO	15268	206-B Bragaw	Te-4-9123	739 Madison St., Roanoke Rapids, NC
Tickle, Donald R.	SR	15170	409-B Bragaw	Te-4-9757	424, Mebane, NC
Till, Robert B.	SO		34 W. Dixie Tr.	Te-3-6901	Rt. 6, Box 235, Asheville, NC
Tillman, Donald N.	FR	3351	229 Bagwell	Te-2-9131	Rt. 3, Sanford, NC
Tillman, Leonard K.	SR		130 Hawthorne Rd.	Va-8-3347	929 Kilmer La., N. Woodmere, NY
Tillman, Michael P.	SO		408K Kinsey St.	Te-2-7415	211 W. Main St., Roxboro, NC
Tillotson, Curtis C., Jr.	SR			3338	College St., Oxford, NC
Tilson, Garey Y., Jr.	FR	3372	306 Bagwell	Te-4-9151	Rt. 2, Chapel Hill, NC
Timko, Michael G.	GR	4703	105 Owen	Te-2-9473	RFD 2, Box 106, Harrington, Del.
Timson, Frank W., Jr.	JR	3805	3 Becton	Te-2-9261	812 Jefferson Dr., Charlotte 7, NC
Tisdale, Henry F.			UK-29 Vetville		2814 Fowler, Raleigh, NC
Titmus, Edward B.	JR	3768	234 Becton	Te-2-9334	Rt. 3, Box 241, Petersburg, Va.
Tobert, Joseph G.					2401 Grant Ave., Raleigh, NC
Todd, Edward B.	JR	15007	103-C Bragaw	Te-2-9129	E. Bend, NC
Todd, Marvin C., Jr.	SO		2209 1/2 Hope St.	Te-4-3244	701 W. Church St., Ahoskie, NC
Todd, Maurice C.	FR	4470	215 Owen	Te-2-9410	E. Main St., East Bend, NC
Tola, John D.	FR			Te-3-2354	3103 Stanhope Ave., Raleigh, NC
Tolar, John W.	JR		J-11 Married Stu. Ho.		Cedar Grove, NC
Tolbert, Ronald H.	FR	3546	214 Syme	Te-2-9150	Rt. 3, Axton, Va.
Tolen, Robert C.	JR	3302	102 Bagwell	Te-4-9219	417 Peachtree, Asheboro, NC
Toler, Robert W.	GR		1407 Beaver Lam Rd.	Te-4-7463	DeWitt, Ark.
Tollison, James B., Jr.	SO	15324	310-B Bragaw	Te-4-9253	532 Shamrock Rd., Asheboro, NC
Tolson, Edward N.	JR	15226	106-C Bragaw	Te-4-7998	Rt. 3, Tarboro, NC
Tolson, Fred L.	FR	3017	117 Watauga	Te-2-9447	4th St., Finetops, NC
Toskins, Charles R.	FR		726 Chamberlain	Te-4-0451	Hume St., Gallatin, Tenn.
Tomlin, Mickey D.	SO	4634	123 Tucker	Te-2-9367	129 Fowler Ct., High Point, NC
Tomlinson, William B., III	UN	4200	101 Burlington	Te-4-9279	3307 Gloucester Rd., Richmond, Va.
Tomlinson, Lane Grey	UN		J-23 Married Stu. Ho.	Te-2-1389	107 1/2 Folk St., Raleigh, NC
Toms, Frederic A.	SO		3314 Hillsboro	Te-4-3375	Rt. 1, Box 16, Forest City, NC
Toms, John A.	JR	15444	120-B Bragaw	Te-2-9180	Rt. 3, Box 275, Forest City, NC
Toney, Fred, Jr.	GR	3222	210 Gold	Te-2-9263	Rt. 1, Mooresboro, NC
Toomey, Walter G.	GR		451 Williams Hall	Ext. 329	Rutherfordton, NC
Topinka, Gerald J.	FR	4541	328 Owen	Te-4-9836	Box 688, Hermania, Pa.
Torrence, Charles B.	FR	15161	405-A Bragaw	Va-8-6547	200 Mitchell Ave., Salisbury, NC
Torrence, Daniel A.	SR	15434	426-C Bragaw	Te-4-9754	106 N. Holden Rd., Greensboro, NC
Torrence, James F.	SR		29 Tower St.	Va-8-2-53	1326 Parkway Cr., Salisbury, NC
Tosto, Edgar J.	SR		216 Layview Rd.	Va-8-2295	Sea Level, NC
Tourtellot, Robert C.	JR	3321	121 Bagwell	Te-4-9219	126 Hillside Ave., Charlotte, NC
Towns, Leland F.	FR	4709	239 Tucker	Te-2-9387	32 Warwick Rd., Asheville, NC
Townsend, Samuel P.	JR			Te-4-4881	629 E. Franklin St., Raleigh, NC
Traber, Lawrence J.	SR		112 Cox Ave.		153 Birch Ct., Arden, NC
Traister, Francis L., Jr.	FR		2316 Hillsboro	Te-4-5452	Rt. 2, Box 10, Wilmington, NC
Transeau, Robert H., Jr.	JR	3611	15 Syme	Te-2-9421	Box 228, Wilkesboro, NC
Prent, Wallace L.	GR		2142 Layview Rd.	Va-8-5327	Box 734, Kernersville, NC
Triebel, Edward J., Jr.	SO		1601 Hillcrest	Te-2-5828	429 Highridge, Kingsport, Tenn.
Trinidad, Levy A.	GR		116 Forest Rd.		95-A Kalantiyaw, Project 4, Jazoon City Philippines
Triplett, Oscar E.	SR		991 Wilmington Terr.		Raleigh, NC
Tripp, Jasper L., Jr.	JR	5431	1703 St. Mary's St.	Te-2-4305	Raleigh, NC
Trogon, Joe V.	SR			Te-4-7079	Rt. 1, Box 71, Cary, NC
Trodon, Stephen L.	FR	4732	265 Tucker	Te-2-9387	Raleigh Rd., Ramseur, NC
Trotman, John Lee	SR			Te-4-9404	UK-28, Vetville, Raleigh, NC
Trott, Robert S., II	FR	4700	429 Tucker	Te-4-9828	310 West Ave., Hampden, NC
Trotter, Norman L.	FR	4476	221 Owen	Te-2-9252	Box 302, Brevard, NC
Troutman, Howard H., Jr.	JR	3722	122 Becton	Te-2-9256	Box 152, Pine Bluff, NC
Troutman, Paul E.	FR	4730	263 Tucker	Te-2-9387	Glenmac Rd., Charlotte, NC
Troutman, William H.	SR	3218	206 Gold	Te-2-9263	JFS, Concord, NC
Tu, Yuen-Wei	SR	5786	109 Gold	Te-2-9263	6 Lane 3, Row 5, Sect. 3, Jen-Ai Rd., Taipei, Taiwan, China
Tucker, Dennis W.	JR	3755	221 Becton	Te-2-9334	Rt. 1, N. Wilkesboro, NC
Tucker, Frank C., Jr.	SO	3779	311 Becton	Te-2-9327	607 Westover Rd., Shelby, NC
Tucker, George A.	SR	15213	102-C Bragaw	Te-2-9180	279 Poplar Tent Rd., Concord, NC
Tucker, George E.	GR		334 Riddick	Ext. 428	2112 Dunnhill, Raleigh, NC
Tucker, Irvin B. III	FR				3603 Brooks Dr., Raleigh, NC
Tucker, Patricia Lee	FR		309 Hillcrest Rd.	Te-2-9425	Raleigh, NC
Tucker, Paul A., Jr.	SO	4200	101 Burlington	Te-4-9279	Box 272, Lenoir, NC
Tucker, Ralph D.	SO	3507	107 Syme	Te-2-9288	Circle St., Granite Falls, NC
Tucker, Richard L.	JR		309 Chamberlain		3105 Osborne Rd., Greensboro, NC
Tucker, William C.	SR	4539	324 Owen	Te-4-9300	Box 74, Townsville, NC
Tulloss, John W., Jr.	SO	15293	218-D Bragaw	Va-8-2659	109 M. Boylan, Raleigh, NC
Tune, Harry C., Jr.	JR		308 Horne	Te-4-7123	302 Villa St., Rocky Mt., NC
Tunnell, Douglas L.	FR	4252	224 Turlington	Te-2-7050	508 Collett St., Morganton, NC
Turbyfill, Fressley L.	JR	4432	138 Owen	Te-2-9297	New Holland, NC
Turco, John E.	FR	4654	147 Tucker	Te-2-9115	Rt. 1, Laiden, NC
Turner, Conrad L.	Jr.		1105 Parker St.	Te-2-9388	5 Buena Vista Way, New Castle, Pa.
Turner, Douglas H.	SO			Va-8-6362	Box 297, Waynesville, NC
Turner, Frank V.	JR			Te-3-7707	504 Washington St., Raleigh, NC
Turner, Henry W.	FR	3578	314 Syme	Te-4-9673	708 W. Aycock St., Raleigh, NC
Turner, James F.	SR		619 W. Johnson St.	Te-2-9222	205 W. 111. Ave., So. Fines, NC
Turner, James H.	JR	15303	204-B Bragaw	Te-2-2464	Rt. 2, Box 75, Wadesboro, NC
Turner, James W.	JR		128 Groveland Ave.	Te-4-9123	P.O. Box 3, Dunn Loring, Va.
Turner, Jerrell M.	FR	3320	120 Bagwell	Te-3-8037	21 Ridgeway Park, Asheville, NC
Turner, Larry W.	FR	4127	123 Alexander	Te-4-9219	515 First St., Laurinburg, NC
Turner, Robert C.	SR		130 Westburn Rd.	Te-2-9257	Box 312, Spencer, NC
Turner, Rufus C.	FR	4426	131 Owen	Te-2-9437	503 Northridge, Greensboro, NC
Turner, Thomas R.	FR	4546	314 Owen	Te-4-9300	P.O. Box 361, Concord, NC
Turner, Rufus C.	JR		124 Hawthorne Rd.	Te-3-4252	Rt. 2, Rocky Mt., NC
Turner, William L.	JR		511 Ingle Ave.	Te-4-6009	Rt. 7, Jacon, Ga.
Turnipspeed, Samuel G.	SR		1333 Chester Rd.	Te-2-1745	Raleigh, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Turpin, John P.	FR	3128	302 Fourth	Te-2-9159	P.O. Box 0, Newport, NC
Turpin, Robert G.	JR	3128	302 Fourth	Te-2-9159	P.O. Box 0, Newport, NC
Tuttle, Edward H.	SO	15135	317-C Bragaw	Te-4-9179	408 i.k. View, Lenoir, NC
Tuttle, James F., Jr.	SO	3811	9 Becton	Te-2-9261	206 Ash St., Elizabeth City, NC
Tuttle, Ronald E.	SR		125 Hawthorne Rd.	Te-2-1183	Rt. 1, Pfafftown, NC
Tutzauser, Jack R.	FR	4121	126 Alexander	Te-2-9257	1000 Guilford Ave., Greensboro, NC
Twiddy, Paul W.	FR	3774	306 Becton	Te-2-9372	114 Iembroke Cir., Edenton, NC
Twiford, Louis B.	JR		131 Bagwell Ave.	Te-4-0485	1200 Jones Ave., Elizabeth City, NC
Tyler, Warren R.	SR		2327 McMillan Cr.	Va-8-4959	Raleigh, NC
Tydall, Gerald	FR		115 Woodburn Rd.		Box 731, Aberdeen, NC
Tyner, Frederick C.	SO	3717	117 Becton	Te-2-9256	Box 58-A, Red Springs, NC
Tysinger, James E.	SR	15189	417-D Bragaw	Te-4-9757	52 Harrison Ave., Franklin, NC
Tysinger, Walter F.	JR	15196	421-C Bragaw	Te-4-9757	550 Oakwood Ave., Sanford, NC
Tyson, David T.	SO		112 Cox Ave.	Te-4-9757	211 New Bern, Black Mtn, NC
Tyson, Harold D.	SO		115 Hawthorne Rd.		Rt. 2, Waxhaw, NC
Tyson, James E., Jr.					21 Burton Ave., Raleigh, NC
Tyson, Robert Lee II	SR		407 1/2 W. Lenoir St.	Te-2-4743	102 W. Tatum Ave., McCall, SC
Tyson, George S.	SR		1608 Benehan St.	Te-3-7608	Rt. 7, Fayetteville, NC
Umstead, Frederick R.	FR	3504	104 Syme	Te-2-9288	916 Dacian, Durham, NC
Umstead, Thomas C.	SO	4654	147 Tucker	Te-2-9388	504 Holloway St., Durham, NC
Underwood, David F.	JR		2726 Cambridge Rd.		806 E. St., Waynesville, NC
Upchurch, Allen F.	FR		1410 Glenwood Ave.	Te-2-7555	Raleigh, NC
Upchurch, John L.	SO			Te-3-4873	106 Fogue St., Raleigh, NC
Upchurch, Joseph B.	SO	3768	234 Becton	Te-2-9334	Box 738, Greenville, NC
Upchurch, Lewis M.	SR		2718 Clark	Te-2-6451	807 N. Main St., Raeford, NC
Upchurch, Robert H.	SO	3016	116 Watauga	Te-2-9447	Rt. 3, Raleigh, NC
Upchurch, Thurman H.	SR			Te-4-1983	3511 Andrews Lane, Raleigh, NC
Uptegrove, Raymond R.	SO	15268	206-B Bragaw	Te-4-9123	1510 Front St., Georgetown, SC
Upton, John W., Jr.	FR			Va-8-5087	812 Manchester Rd., Raleigh, NC
Ural, Oktay	GR		Math. Dept.		Urla, Izmir, Turkey
U'Ren, Stacy N.	SR		Wickers Tr. Fk., Ral.		Rt. 2, Gastonia, NC
Uskup, Ergin	JR	5764	State Col. Stat.		Adsariay Sait Ef-Sok No. 38, Turkey
Utley, John W.	UN			Te-2-4774	14 Furches St., Raleigh, NC
Uzzle, Ruby P.	UN				2512 Vanderbilt Ave., Raleigh, NC
Vaden, Bernie O.	FR	4346	1 Stadium		Rt. 2, Westfield, NC
Vaiwanijkul, Narasri	GR		415 Dixie Tr.	Te-2-7015	32 Rong Huang, Bangkok, Thailand
Vanaman, Robert F.	SO	4224	127 Turlington	Te-4-9279	3502 Scottywood Dr., Fayetteville, NC
Van Campen, Darrell R.	GR		508 Phelps Ave.	Te-2-4931	Satanta, Kansas
Vance, Louis A.	JR		203 Groveland Ave.	Te-4-3901	Flumtree, NC
Vann, Clifton B.	SR	4455	164 Owen	Te-2-9473	111 Wayne Dr., Wilmington, NC
Van Nostrand, Arthur F.	SO	15249	122-C Bragaw	Te-2-9180	Rockledge Rd., Bristol, Tenn.
Vanpelit, John R.	FR	3267	307 Welch	Te-2-9119	Rt. 3, Kannapolis, NC
Van Aarle, Thomas F.	PROF		107 1/2 Oberlin Rd.		1935 Handley, Saginaw, Mich.
Van Voorhis, Bruce	SO		201 1/2 Park Ave.		3629 Dartmouth Ave., Dallas 5, Texas
Varley, Andrew F.	GR		1401 Beaver Dam Dr.	Te-4-0038	Stuart, Iowa
Varner, Andrew B., Jr.	GR				23-C College, Winston-Salem, NC
Vasiladis, Demetrios A.	GR				3109 Hillsboro, Raleigh, NC
Vase, Marian J.	SO			Va-8-9586	3705 Swann Dr., Raleigh, NC
Vaughan, Claude L., III	FR	3387	321 Bagwell	Te-4-9151	700 Forest Dr., Shelby, NC
Vaughan, Dexter C.	SR		2510 Vanderbilt		1108 4th St., Hartselle, SC
Vaughan, John L.	JR		16 Enterprise St.	Te-4-0435	1411 Dollar Ave., Durham, NC
Vaughan, William J. III	SO		1603 Dare St.	Te-2-4993	204 E. 10 St., Roanoke Rapids, NC
Vaughn, Charles R.	SR	5667	1620 Hillsboro	Te-2-9531	306 Wrenn Ave., Mt. Airy, NC
Vaughn, Joseph B. III	SO	4790	363 Tucker	Te-2-9323	2211 Gaston, Winston-Salem, NC
Vaughn, Michael W.	SO	4531	316 Owen	Te-4-9300	2431 Marble St., Winston-Salem, NC
Vaughn, Robert L.	JR		Rt. 1, Box 71	Va-8-3882	Cary, NC
Veasey, Aubrey D.	FR	3315	115 Bagwell	Te-4-9219	Rt. 1, Bahama, NC
Veasey, Percy L.	SR	3338	206 Bagwell	Te-2-9131	Rt. 5, Box 321, Durham, NC
Vega, Marcos R.	GR		3019 1/2 Hillsboro		33 Grove College, Laguna, Philippines
Velasquez, Luis F.	FR	4758	327 Tucker	Te-2-9323	K. 49 #63-48, Medellin, Colombia, SA
Vennel, Virginia B.	SO		717 Gaston St.	Te-2-5367	496 W. Taylor Run Hwy., Alexandria, Va.
Verbal, Claude A.	FR	3030	212 Watauga	Te-2-9132	416 E. Fettingrew St., Durham, NC
Verbeck, Arthur R.	GR	5691	State Col. Stat.	Te-3-7696	Raleigh, NC
Verchek, Joseph L.	FR	4753	322 Tucker	Te-2-9323	411 Chartiers, Strabane, Pa.
Vermillion, Thomas					
Vestal, William F.	SO	3763	229 Becton	Te-2-9334	Rt. 1, Franklinville, NC
Vick, Durant G.	JR		2612 Clark	Te-2-5484	118 Olive Rd., Fayetteville, NC
Vick, James H.	FR	3823	22 Becton	Te-2-9261	Rt. 3, Nashville, NC
Vickers, James Lee	JR	3759	225 Becton	Te-2-9334	222 N. Shaver St., Salisbury, NC
Vila, William H.	FR				
Vinroot, Charles A.	FR	3049	313 Watauga	Te-2-9488	2116 Hassell Fl., Charlotte 9, NC
Violette, Joseph L. N.	GR		3424 E. Trawick Rd.		566 Clinton Ave., Winslow, Maine
Vitek, Richard J.	FR	4640	129 Tucker	Te-2-9367	124 Cebon Ave., Winston-Salem, NC
Viverette, Cecil E.	FR	15049	201-A Bragaw	Te-2-9185	106 Glenview, Lenoir, NC
Vollmar, George S.	JR		602 Wayne Dr.	Te-3-4711	840 Spruce St., Trenton, NJ
Voorhees, John V.			813 Macon Pl.		310 Brandau Dr., Knoxville, Tenn.
Voorhis, Remsen S.	FR	4361	16 Stadium		1117 Roosevelt Ave., Chapel Hill, NC
Voxz, Fountain G., Jr.	SR	3207	107 Gold	Te-2-9263	Rt. 2, Laurinburg, NC
Vu Hoang	JR		Forestry Sch.		67 Phung Hung, Cho Lon, Viet Nam
Wachtel, Martin L. III	SO	4593	59 Owen	Te-2-9142	Spring Hope, NC
Wadden, Richard A.	GR		Chem. Engr. Dept.	Te-4-5211	2110 Summit, Sioux City, Iowa
Wade, William H., Jr.	SO		1616 Hillsboro		519 S. Hawthorne, Winston-Salem, NC
Wadhwa, Trilochan S.	GR	3228	304 Gold	Te-2-9263	R-723, New Rajinder Nagar, New Delhi 5, India
Wagner, Wesley L.	FR	4361	16 Stadium		Box 61, Mt. Pleasant, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Wagoner, Frank W.	JR	15315	304-B Bragaw	Te-4-9253	Rt. 1, Elon College, NC
Wagoner, James W.	SO	15097	225-B Bragaw	Te-2-9185	716 Fiedmont, Reidsville, NC
Wagoner, John W.	FR	4696	225 Tucker	Te-4-9828	Rt. 1, Gibsonville, NC
Wagoner, Michael N.	FR	3127	301 Fourth	Te-2-9159	2800 Robin Hood Dr., Greensboro, NC
Wagstaff, Robert L., Jr.	SR	4138	207 Alexander	Te-4-9746	524 Carolyn Ave., Kannapolis, NC
Wait, Keppel D.	GR		2625 Neubold Rd.	Te-2-4919	167 Lakeside Dr., Asheville, NC
Wakefield, Robert H., Jr.	FR	71	Rt. 1, Cary, NC	Te-4-5596	
Waldo, Robert R.	JR		2512 Clark	Te-2-4843	P.O. Box 471, Lillington, NC
Waldrop, Don B.	SO		206 Forest Rd.	Te-2-1366	Box 194, Valdese, NC
Walker, Barbara D.	FR	4713	245 Tucker	Te-2-9387	Atkinson, NC
Walker, David S.	GR		309 Forest Rd.	Va-8-6677	Rt. 1, Hillsboro, NC
Walker, Dorothy D.	SR			Wa-2-7284	1119 W. Webb Ave., Burlington, NC
Walker, Frederick G., Jr.	SR			Te-4-9836	220 Ellington St., Clayton, NC
Walker, Gary H.	FR	4548	333 Owen	Va-8-5867	140 Spainhour Ave., Lenoir, NC
Walker, Glen E.	SR		804 1/2 Dixie Tr.	Ho-7-3154	6, Box 22, Morganton, NC
Walker, Herbert B.	SR	341-A	Rt. 1, Cary	Te-2-9388	Montreat Rd., Black Mtn., NC
Walker, James H.	FR	4638	127 Tucker	Te-2-9334	Boonville, NC
Walker, Jefferson H.	SR	3767	233 Beeton	Te-2-9263	27 River Rd., Newport News, Va.
Walker, Kyle R.	FR	3232	308 Gold	Te-2-9132	Rt. 4, Stuart, Va.
Walker, LeRoy, Jr.	FR	3027	209 Matauga	Te-2-9334	2408 Red Oak Ave., Durham, NC
Walker, Oscar T.	FR	3736	202 Beeton	Te-2-9256	Burkhead, Whiteville, NC
Walker, Raymond L., Jr.	SO	15357	324-C Bragaw	Te-2-9149	930 Old Winston Rd., High Point, NC
Walker, Ronald L.	FR	4193	330 Alexander	Te-2-9256	Rt. 3, Burlington, NC
Walker, Thomas L.	FR	3373	133 Beeton	Te-2-9185	114 Windsor Rd., Asheville, NC
Walker, William C.	SO	15050	201-B Bragaw	Te-2-6964	1433 Cole Mill Rd., Durham, NC
Walker, William E.	SR		Uk-1 Vetville	Te-4-1423	745 Falls Rd., Rocky Mt., NC
Wall, Donald G.	SR		949 Peace Terr.		Raleigh, NC
Wall, Edward C.	FR		A-24 Married Stu. Ho.	Va-8-9686	Box 273, Rural Hall, NC
Wall, Kenneth W.	SO		3210 Ruffin St.		Rt. 7, Winston-Salem, NC
Wall, Kermit A., Jr.	FR	3533	Q-112 Married Stu. Ho.	Te-2-9150	Box 175, Walkertown, NC
Wall, Luther W., Jr.	UN	3593	201 Syme	Te-2-9222	Julian, NC
Wall, Michael J.	FR	3730	329 Syme	Te-2-9261	Rt. 1, Grifton, NC
Wallace, George F.	FR	4280	27 Beeton	Te-2-9192	12 Glenwood Ave., Foxboro, Mass.
Wallace, George R., Jr.	JR	15241	318 Turlington	Te-2-9180	1910 Evans, Morehead City, NC
Wallace, Joseph D.	JR		118-C Bragaw		Rt. 4, Ebert St., Winston-Salem, NC
Wallace, Larry S.	JR		512 S. Boylan Ave.		Box 64, Newport, NC
Wallace, Richard B.	JR	4507	256 Owen	Te-2-9252	Box 116, Rt. 1, Cerro Gordo, NC
Waller, James	FR	4317	210 Berry	Te-2-9363	Rt. 1, Maple Hill, NC
Waller, Linn R.	FR	3819	17 Beeton	Te-2-9261	1209 S. Railroad, Salisbury, NC
Walser, Douglas M.	JR	3535	203 Syme	Te-2-9150	Box 1100, Salisbury, NC
Walser, Stacy T., Jr.	JR		Q-122 Married Stu. Ho.		Box 1100, Salisbury, NC
Walsh, William K.	SR	15104	303-A Bragaw	Te-2-1893	125 Cox Ave., Raleigh, NC
Walters, Jack, Jr.	FR	4492	238 Owen	Te-4-9179	Smyrna Rd., Whiteville, NC
Walters, James F.	JR	15092	223-A Bragaw	Te-2-9252	Aberdeen Rd., Laurinburg, NC
Walters, Roger W.	FR	4337	4 Berry	Te-2-9185	1410 Mockingbird Ln., Charlotte, NC
Walters, William P.	JR		3008 Ruffin St.	Te-2-3750	1720 Glenwood, Greensboro, NC
Walton, Douglas E.	JR			Te-2-3851	Rt. 2, Box 417, Rockingham, NC
Walton, Jay R.	SR	15185	324-A Bragaw	Ho-7-9639	Cary, NC
Waltz, William R.	GR		5 1/2 Dixie Tr.	Te-4-9253	1701 N. Indep. Blvd., Charlotte, NC
Wang, Agnes Ying-Fu	GR		2402 Hillsboro	Te-2-9927	Raleigh, NC
Wang, Pu Tseng	GR		State Col. Stat.	Te-3-9108	China
Wanjari, Manohar R.	GR	5797	409-C Bragaw	Te-4-9757	2400 Delta Dr., Raleigh, NC
Ward, Allen E.	FR	3583	319 Syme	Te-2-9222	Box 326, Rowland, NC
Ward, Gilbert T.	JR		2729 Everett		6902 Leesville Blvd., N. Springfield
Ward, Herman N.	SO	4140	211 Alexander	Te-4-9746	1931 Willow St., Roanoke Rapids, NC
Ward, Gus G. III	SO	3594	330 Syme	Te-2-9222	3212 Chapel Hill Rd., Durham, NC
Ward, Leon J.	FR	3741	207 Beeton	Te-2-9334	1509 E. Ash, Goldsboro, NC
Ward, Richard S.	SO	15230	110-D Bragaw	Te-2-9180	1130 Carolina, Bristol, Tenn.
Ward, Thomas C.	FR				2736 St. Mary's St., Raleigh, NC
Ward, Thomas M.	SO	15042	123-B Bragaw	Te-2-9129	400 Heathcliff St., Charlotte, NC
Ward, William C., Jr.	FR	4102	121 Alexander	Te-2-9257	1002 W. Kenan St., Wilson, NC
Ward, William H.	FR	4515	264 Owen	Te-2-9410	Rt. 3, Newland, NC
Ware, Benjamin G.	FR	4571	360 Owen	Te-4-9836	Homewood Acres, Siler City, NC
Warford, Reuben C.	SO			Te-3-6433	3103 Eton Rd., Raleigh, NC
Warlick, William C.	SR			Te-4-1008	3303 Leonard St., Raleigh, NC
Warmbrod, Grover K.	JR		708 Boylan Dr.		Rt. 3, Box 52, Mt. Gilead, NC
Warner, James G.	SO		104 Logan Ct.	Va-8-6188	517 New St., New Bern, NC
Warner, Michael	JR	3400	134 Bagwell	Te-4-9151	373 E. Washington St., Chagrin Falls
Warner, Peter C.	SO	4231	236 Turlington	Te-4-9279	111 Wyman St., Bedford, Mass.
Warner, Raymond D.	FR	3314	114 Bagwell	Te-4-9219	116 Ledbetter, Rockingham, NC
Warnock, Paul F.	FR	5545	222 Hillcrest	Te-2-3429	216-A, Rt. 3, Hillsboro, NC
Warren, Elwood G., Jr.	FR	4580	45 Owen	Te-4-9754	301 Hillcrest, Clearwater, Fla.
Warren, Glenn T.	SR		1800 Park Dr.		15 Trotter Pk., Asheville, NC
Warren, Howard D.	SO	15224	108-B Bragaw	Te-2-9180	Rt. 1, Box 147, Battleboro, NC
Warren, James M.	FR	3400	334 Bagwell	Te-4-9151	215 Nassau, Princeton, NJ
Warren, John F.	FR	3622	26 Syme	Te-2-9421	Box 114, Rt. 1, Chocowiny, NC
Warren, Norman L.	FR	3564	232 Syme	Te-2-9150	115 Adams St., Durham, NC
Warren, Robert S., Jr.	UN		UK-38 Vetville	Va-8-3852	422 Wayne Dr., Raleigh, NC
Warren, Thomas A.	FR	3566	302 Syme	Te-2-9222	Box 5096, Asheville, NC
Warrick, William D.	SR			Te-4-4046	Rt. 1, Selma, NC
Warrick, Woodie, Jr.	SO		3604 Clark		1802 Wake St., Raleigh, NC
Warrick, Woodley C.	JR		116 Hawthorne	Te-3-7860	Rt. 2, Clayton, NC
Warwick, Nurham O.	JR			Te-2-8406	Rt. 5, Clinton, NC
Washburn, James R.	JR				Rt. 1, Spruce Pine, NC
Washburn, Seth L.	JR				Rt. 1, Garner, NC
Waters, Joe W.	JR	15326	310-A Bragaw	Te-4-9253	Rt. 1, Forest City, NC
Waters, John C.	JR		620 W. Lane St.	Te-2-6096	6717 Virginia Ave., Charlotte, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Waters, John F.	SR			Te-2-2138	3109 Hillsboro, Raleigh, NC
Watkins, Bobby J.					Rt. 4, Zebulon, NC
Watkins, Deal F.	FR	3776	308 Bedton	Te-2-9372	605 nineview Dr., Raleigh, NC
Watkins, Gerald J.	SO	15174	411-B Bragaw	Va-8-6753	607 Candlewood Dr., Greensboro, NC
Watkins, James F.	SR			Co-6-2518	Rt. 5, Raleigh, NC
Watkins, John W.	JR			Te-3-7700	Apt. D Glenwood Arms, Raleigh, NC
Watkins, Louie W., Jr.	JR	15221	106-C Bragaw	Te-2-9180	2260 Mimosa Pl., Wilmington, NC
Watkins, Patricia Ann	UN		309 Perry St.	Te-2-4552	Raleigh, NC
Watkins, Rupert W.	GR			Te-3-4263	3600 Woodside Rd., Raleigh, NC
Watkins, William D.	FR	4522	305 Owen	Te-4-9836	212 Little St., Wadesboro, NC
Watson, Carolyn O.	FR		1115 Hillsboro.	Te-4-7136	208 Maple, High Point, NC
Watson, Charles W.	SR	15080	217-A Bragaw	Te-2-9185	Highlands, NC
Watson, Clara E.					Rt. 2, Box 478, Clayton, NC
Watson, Clayton L.	FR	4660	153 Tucker	Te-2-9388	117 Hazel Lee Dr., Lenoir, NC
Watson, Harrison B.	JR		2504 Vanderbilt	Va-3-6164	809 St. Vernon Ave., Charlotte, NC
Watson, Harry L.	SR		707-A Daniels St.	Te-4-3354	204 E. College, Whiteville, NC
Watson, Jackie O.	FR	3127	301 Fourth	Te-2-9159	1004 Asheboro St., Greensboro, NC
Watson, James E., Jr.	GR		1501 Benehan St.	Te-4-0271	Box 729, Red Springs, NC
Watson, Kenneth A.	FR	4491	237 Owen	Te-2-9252	419 Western Ave., Rocky Mt., NC
Watson, Kent E.	PROF	15258	126-D Bragaw	Te-2-9180	Box 57, Wanteo, NC
Watson, Larry I.	SO	15188	417-C Bragaw	Te-4-9757	103 Country Club Dr., Plymouth, NC
Watson, Millard W.	FR		1105 W. Lenoir St.	Te-3-8831	Box 54, Lucama, NC
Watson, Nathan D.	SR		1508 Frank St.		Rt. 5, Mt. Airy, NC
Watson, William R.	SO		726 Chamberlain	Te-2-6053	St. Main St., Red Springs, NC
Watson, Rhenix U.					321 Smithfield St., Raleigh, NC
Watts, Max D.	SO	3118	108 Fourth	Te-2-9159	Rt. 1, Box 215, Morganton, NC
Watts, Plato H., Jr.	SO	15059	205-C Bragaw	Te-2-9185	109 S. Franklin St., Florence, SC
Watts, Thomas F.	SO	15262	202-D Bragaw	Te-4-9123	1036 Miller St., Winston-Salem, NC
Waugh, Elizabeth C.	UN			Te-3-4158	3211 Churchill Rd., Raleigh, NC
Waugh, Jack F.	GR		307 Atwater St.		Burlington, NC
Waugh, David M.	FR	4725	258 Tucker	Te-2-9837	Jefferson, NC
Weatherly, Robert N.	SO	3726	126 Becton	Te-2-9256	P.O. Box 185, Hamlet, NC
Weathers, Muriel M.	UN			Te-4-5923	1218 Lorimer Rd., Raleigh, NC
Weaver, Charles H.	FR	4757	326 Tucker	Te-4-9739	RFD 1, Four Oaks, NC
Weaver, Delmar D.	JR		1508 Frank St.		RFD 1, Box 213, Goldsboro, NC
Weaver, James B.	SR		2243 Noble Rd.	Va-8-6798	Raleigh, NC
Weaver, James Bryson	FR	4796	45 Tucker	Te-2-9186	315 Belview St., Valdese, NC
Weaver, James L.	FR	4757	326 Tucker	Te-4-9739	RFD 1, Four Oaks, NC
Weaver, Jerry S.	JR	3537	205 Syme	Te-2-9150	122 Eaman Ave., Salisbury, NC
Weaver, John T., Jr.	FR	3306	106 Bagwell	Te-4-9219	Hinotops, NC
Weaver, William B.		3762	328 Becton	Te-2-9334	103 Sunrise, Asheboro, NC
Weaver, William N.	JR	15181	413-B Bragaw	Te-4-9757	2723 Wellington Dr., Winston-Salem, NC
Webb, Charles D.	GR		108 Pogue St.		1600 Walnut, Clearwater, Fla.
Webb, Joseph P.	FR	4272	309 Burlington	Te-2-9192	808 Western Ave., Rocky Mount, NC
Webb, Robert H., Jr.	FR	3047	311 Watauga	Te-2-9488	Rt. 2, Wehane, NC
Webb, Wilbur K.	FR	4714	247 Tucker	Te-2-9387	At. 4, Wilson, NC
Webb, William L.	SO	4313	206 Berry	Te-2-9363	219 Woodrow, High Point, NC
Weber, Susan M.	FR			Te-4-2855	P.O. Box 2515, Raleigh, NC
Webb, Jane	GR		1408 Canterbury Rd.	Te-2-8653	223 McCauley St., Chapel Hill, NC
Webster, John R.	FR	4478	223 Owen	Te-2-9252	Rt. 1, Stoneville, NC
Webster, Henry M.	SO	4531	316 Owen	Te-4-9836	RFD 4, Sanford, NC
Webster, Nowell B.	FR	3552	220 Syme	Te-2-9150	506 Ridge, Kings Mtn., NC
Webster, Robert P.	SR		16 Enterprise St.	Te-3-2093	Stoneville, NC
Wechsler, Donald B.	SO	4793	367 Tucker	Te-2-9323	2315 Hinotree Dr., Miami Beach, Fla.
Weed, David M.	SR		2715 Barnettier St.	Va-8-2282	865 Tke Pl., Westfield, NJ
Weeks, Clyda M.	JR			Te-2-6909	5820 Fayetteville Rd., Raleigh, NC
Weeks, Martin W., Jr.	FR	15328	310-C Bragaw	Te-4-9253	Mt. Olive, NC
Weeks, Willis B.	SO	15401	420-B Bragaw	Te-4-9754	Mt. Olive, NC, Rt. 3
Weiller, Donald H.	JR		2711 St. Mary's St.	Va-8-6592	3132 Belwin Dr., Raleigh, NC
Weinberg, Alan S.	SO		304 E. Park Dr.	Te-2-7638	104 Faulkner Dr., Greensboro, NC
Weunburg, Rodney L.	FR	3386	320 Bagwell	Te-4-9151	88 Maney, Asheville, NC
Weiss, David S.	SO	3314	114 Bagwell	Te-4-9219	442 Almhurt Rd., Charlotte, NC
Welch, John T.	GR		128 Bagwell Ave.	Va-8-5928	Williamsboro St., Oxford, NC
Welch, Lawrence E.	SR		1430 Duplin Rd.	Te-3-6026	3128 Morson St., Charlotte, NC
Weldon, William L.	FR	4414	119 Owen	Te-2-9115	119 Edgewood Dr., Henderson, NC
Wellborn, James D., Jr.	FR	3322	122 Bagwell	Te-4-9219	1107 Lakewood Dr., Monroe, NC
Wellman, John W.	SO			Te-4-5124	2223 Noble Rd., Raleigh, NC
Wellons, George S.	SO		2211 Hope St.	Te-4-1782	Rt. 3, Wilson, NC
Wells, Charles E., Jr.	FR		130 Hawthorne	Va-8-3347	Femberton Rd., Julietstown, NJ
Well, Garland R.					
Wells, John H., Jr.	SR				4137 Chapel Hill Rd., Durham, NC
Wells, Otho S.	SR	4625	114 Tucker	Te-2-9367	Box 153, Watha, NC
Wells, Paul A., Jr.	FR	4733	267 Tucker	Te-2-9387	518 S. Vyne St., Rocky Mt., NC
Wells, Roland D.	JR	3744	210 Becton	Te-2-9334	188 Flint St., Asheville, NC
West, Charles H., Jr.	FR	5665	2514 Clark	Te-3-4522	3704 Star Mount Dr., Greensboro, NC
West, George H.	JB	15404	422-A Bragaw	Te-4-9754	Rt. 6, Box 252, Kinston, NC
West, Graham A.	FR	4520	303 Owen	Te-4-9300	913 Rudolph, Goldsboro, NC
West, James N.	FR	4754	323 Tucker	Te-4-9739	Rt. 6, Box 252, Kinston, NC
West, Thomas B.	SO		Q-210 Married Stu. Ho.		525 Spruce St., Charlotte, NC
West, Willis A.	SO				202 Groveland Ave., Raleigh, NC
Westbrook, Richard H.	FR	4135	203 Alexander	Te-4-9746	621 Sorry St., Forts, Va.
Westbrook, Thomas H.	FR	4172	4135 Alexander	Te-2-9349	Rt. 3, Mt. Olive, NC
Wester, Carl H.	GR				2110 Fairview Rd., Raleigh, NC
Westfall, Fredrick R.	GR		1225 Chaney Rd.	Va-8-6112	4501 Wayne, Toledo, Ohio
Westmoreland, Edwin A.	FR		Apt. 15, Waco High.	Te-4-2735	Raleigh, NC
Weston, Robert F.	SC	15215	104-A Bragaw	Te-2-9180	217 Marshall Ave., Williamston, NC
Whaley, Edward K.	SR	213	Rt. 1, Cary		Box 64, Richlands, NC
Whitley, Lewis S.	JR	3549	217 Syme	Te-2-9150	Rt. 5, Asheboro, NC
Wheaton, Bruce M.	SO	15352	222-B Bragaw	Te-4-9253	120 Jefferson St., Burlington, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Wheeler, Ray B.	SO	4671	164 Tucker	Te-2-9388	54 Sub Stat. Rd., Canton, NC
Wheelless, Gilbert B., Jr.	GR	3372	306 Bagwell	Te-4-9151	1001 W. Trinity Ave., Durham, NC
Wherry, Daniel G.	JR		2512 Clark	Te-2-4845	278 Glenmont, Columbus, Ohio
Whichard, Willis K., Jr.	SR	15222	106-D Bragaw	Te-4-7998	1044 W. Rock Spring Rd., Greenville, NC
Whicker, Gaines L.	SR	4107	109 Alexander	Te-2-9257	303 Idlewood Dr., Kannapolis, NC
Whicker, Rex A.	FR	4646	136 Tucker	Te-2-9367	Joyce, Stoneville, NC
Whidbee, Hoyt W., Jr.	FR	4679	206 Tucker	Te-4-9828	Box 217-D, Engelhard, NC
Whilden, Carleton N., Jr.	JR	15246	120-D Bragaw	Te-2-9180	429 Huntington Pk. Dr., Charlotte, NC
Whisenant, James E.	SR		118½ Folk St.	Te-4-2739	212 Burkemont Ave., Morganton, NC
Whisenant, James M.	FR	4726	259 Tucker	Te-2-9387	Rt. 3, Box 758, Lenoir, NC
Whitaker, Frank O., Jr.	FR	4475	220 Owen	Te-2-9410	Oak Ridge, NC
Whitaker, Robert N.	JR		2718 Clark	Te-2-6451	500 Sherrod Hght., Enfield, NC
Whitaker, Thomas B.	SR			Va-8-2480	604-C Daniels St., Raleigh, NC
Whitaker, Wilson W.	JR	3004	104 Watauga	Te-2-9447	South Hill, Va.
White, David E., Jr.	JR	15244	120-B Bragaw	Te-2-9180	Rt. 2, statesville, NC
White, Douglas E.	SO	15056	203-D Bragaw	Te-2-9185	814 W. Church St., Ahsokie, NC
White, Duward L.	FR	4741	308 Tucker	Te-4-9739	Dover, NC
White, Edward S.	FR	3012	112 Watauga	Te-2-9447	1809 Independence, Greensboro, NC
White, Finley T., Jr.	JR		115 Hawthorne		3122 Surrey Rd., Durham, NC
White, George L.	FR	3551	219 Syme	Te-2-9150	504 E. 9th St., Greenville, NC
White, George R.	SR	3305	105 Bagwell	Te-4-9219	Salemberg, NC
White, Gerald B.	SR		1718 Hillsboro	Va-8-4464	Rt. 2, Statesville, NC
White, Jack T.	FR	4734	301 Tucker	Te-2-9323	522 W. Colonial Ave., Elizabeth City, NC
White, James F.	SR		901 W. Johnson St.	Te-2-5154	1085 Vistavis Cir., Decatur, Ga.
White, John K.	SO	4220	213 Berry	Te-2-9362	2003 Brightwood Sch. Rd., Greensboro, NC
White, Joseph R., Jr.	SR	4642	131 Tucker	Te-2-9367	Box 24, Rt. 1, Colerain, NC
White, Kenneth S.	FR	4150	221 Alexander	Te-4-9746	1908 Autumn Ct., Greensboro, NC
White, Norman B.	FR	3590	326 Syme	Te-2-9222	Rt.3, Pittsboro, NC
White, Ormond C.	SR		17 Enterprise St.	Te-4-6510	Rt. 3, Box 409, Windsor, NC
White, Ronald E.	JR		W&L Tr. Haven, Rt. 1	Ho-7-3243	Rt. 1, Cary, NC
White, Rufus J.	FR	15099	225-D Bragaw	Te-2-9185	Conway, NC
White, Stokes Jr.	FR	4139	209 Alexander	Te-4-8746	69 W. Depot St., Concord, NC
White, Thomas K., Jr.	GR			Te-2-0462	F-3 Shelton Apts., Raleigh, NC
White, Wester W.	FR	3571	307 Syme	Te-2-9222	Rt. 7, Box 270, Greensboro, NC
White, Thomas H.	SO	15288	216-C Bragaw	Te-4-9123	272 E. McNeely, Mooresville, NC
White, William H., Jr.	SO		3414 Hillsboro	Te-3-4808	1809 Independence, Greensboro, NC
Whitehead, William J., Jr.		4745	314 Tucker	Te-4-9739	Rt. 2, Box 173, Scotland Neck, NC
Whitehouse, Richard A.	SO		1303 Beaver Dam Rd.	Va-8-9694	Old Ellington Rd., Broad Brook, Conn.
Whitener, Robert L., Jr.	JR			Te-3-2501	2617 VanDyke Ave., Raleigh, NC
Whitesell, Craig D.			N-22 Married Stu. Ho.		
Whitesell, William K., Jr.	SO	15375	408-A Bragaw	Te-4-9754	Gibsonville, NC
Whiteside, Daniel L.	SR		18½ Horne St.	Va-8-5698	2012 Ave. O, Huntsville, Texas
Whitesides, David P.	JR		2601 Clark	Te-2-8631	622 W. Airline, Gastonia, NC
Whitfield, James H.	FR	4764	333 Tucker	Te-2-9323	Rt. 2, Hurdle Mills, NC
Whitfield, George C.	FR		312½ Forest Rd.	Te-3-0860	Box 53, Snow Hill, NC
Whitfield, James P., Jr.	JR	15004	101-D Bragaw	Te-2-9129	1201 Watts St., Durham, NC
Whitfield, John K.					
Whitford, Larry B.	SR			Te-4-6816	106 Faircloth St., Raleigh, NC
Whitley, Charles E.	JR	4491	237 Owen	Te-2-9252	315 S. Yelurton, Stantonburg, NC
Whitley, David B.	SR	4328	308 Berry	Te-2-9363	323 Harvey St., Washington, NC
Whitley, James L., Jr.	FR	4112	115 Alexander	Te-2-9257	Rt. 2, Enfield, NC
Whitlow, David W.	SO	4508	257 Owen	Te-2-9252	1507 Williams Pl., High Point, NC
Whitman, Emil John	SO		312½ Forest Rd.	Te-3-0860	Box 166, Babson Park, Fla.
Whitt, Ellis E.	SO	15164	405-D Bragaw	Va-8-6547	Rt. 1, Trinity, NC
Whitted, Victor W.	FR	4647	137 Tucker	Te-2-9388	Rt. 3, Graham, NC
Whitten, Samuel R.	FR	4550	336 Owen	Te-4-9300	537 Highland, Henderson, NC
Whittle, Connie L.	FR	4489	235 Owen	Te-2-9252	424 Cronly, Laurinburg, NC
Wicker, Robert B. III	JR		103 Chamberlain	Te-2-2705	313 Bracken St., Sanford, NC
Widen, Carl E.	SO	4177	2405 Clark	Te-2-6543	628 Fgb. Blvd., McKeesport, Pa.
Wiegand, Rudolf P.	FR	4186	323 Alexander	Te-2-9349	5501 Twin Lane, Charlotte, NC
Wieland, Fred G.	UN		222 Hillcrest	Te-2-3429	1236 Mitchell Ave., Statesville, NC
Wiese, Richard A.	GR		Uk-24 Vetville	Te-3-1107	Raleigh, NC
Wigg, Helen J.	SO		21 Enterprise St.	Te-4-2815	237 Kenwood Ave., Wilmington, NC
Wiggins, John R.					306 Griffin St., Cary, NC
Wiggins, Noland E., Jr.	JR	15004	101-D Bragaw	Te-2-9129	910 Urban Ave., Durham, NC
Wikle, Richard W.	FR	3557	225 Syme	Te-2-9150	Rt. 1, Kernersville, NC
Wilbur, Robert L.	FR	4225	128 Turlington	Te-4-9279	515 Old Lancaster Rd., Haverford, Pa.
Wilcox, John L.	JR		3414 Hillsboro	Te-3-4808	4008 Watrous Ave., Tampa, Fla.
Wilcox, Merrill					
Wilde, Harold G.	SR	3218	110 Gold	Te-2-9263	Rt. 6, Marshall, NC
Wilder, Albert G.	SO	4303	103 Berry.	Te-2-9350	909 Morehead Ave., Greensboro, NC
Wilder, David R.	SR				Dorthea Dix Hosp., Raleigh, NC
Wilder, James F.	SR		2112 Mayview Rd.	Va-8-2400	Rt. 2, Spring Hope, NC
Wilder, John W., Jr.	SR		McSwains Tr. Pk., Cary		909 Morehead Ave., Greensboro, NC
Wilder, Manly S.	SR	4579	43 Owen	Te-2-9142	Rt. 2, Middlesex, NC
Wilder, Samuel W., Jr.					709 W. Fineland Dr., Raleigh, NC
Wiles, John P.			23½ Shepherd St.		
Wiley, John R.	UN	4501	250 Owen	Te-2-9252	P.O. Bix 302, Washington, NC
Wilfong, John W.	FR	4348	3 Stadium		Box 103, Claremont, NC
Wilhoit, Charles E.	JR	4309	202 Berry	Te-2-9363	723 S. Taylor St., Rocky Mt., NC
Wilhelm, Steven G.	FR	4462	205 Owen	Te-2-9252	Rt. 5, Chillicothe, Ohio
Wilkerson, Charles V.	JR		2610 Clark	Te-2-1432	Rt. 4, Roxboro, NC
Wilkerson, Joe E.	FR	4577	367 Owen	Te-4-9836	819 Durham Rd., Roxboro, NC
Wilkerson, Glen W.	FR			Te-2-7678	705 Glascock, Raleigh, NC
Wilkins, Robert L.	UN	5254	1010 Gorman St.		1408 Morganton Rd., Fayetteville, NC
Wilkins, Samuel L.	SR	3806	4 Becton	Te-2-9261	Rt. 3, Box 205, Jacksonville, NC
Wilkins, William C., Jr.	FR	1460	231 Alexander	Te-4-9746	Pine Level, NC
Wilkinson, David H.	SO	15413	426-B Bragaw	Te-4-9754	27 Tacoma Pl., Asheville, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Wilkinson, Jesse J.	JR		2902 Everett	Te-2-1476	915 10th St., Blvd. W.W., Hickory, NC
Wilkinson, Michael W.	SR		304-E Chamberlain	Te-2-9715	113 Patterson, Statesville, NC
Wilkinson, Robert W.	WN	5876	214 Alumni Hall		Timberlane Rd., Rocky Mt., NC
Willard, Calvin E.	FR	4648	138 Tucker	Te-2-9388	212 W. Maryland Ave., Traper, NC
Willlett, Michael G.	SC	15290	218-A Bragaw	Te-4-9123	1000 Neal, Greensboro, NC
Willlett, Robert B.	SR	15290	218-A Bragaw	Te-4-9123	1000 Neal, Greensboro, NC
Willie, Norman H.	JR			Te-2-5561	808 Benson Rd., Garner, NC
Williams, Albert J., Jr.	FR	4596	62 Owen	Te-2-9122	1507 E. 3th St., Charlotte, NC
Williams, Benjamin					
Williams, Brooks M.	FR	3520	120-Cyme	Te-2-9288	908 W. Hines, Wilson, NC
Williams, Bryan L.	JR	4673	167 Tucker	Te-2-9388	Rt. 3, Rocky Mt., NC
Williams, Carlos A., Jr.	FR	4698	287 Tucker	Te-4-9888	303 Valley Rd., Fayetteville, NC
Williams, Claude W., Jr.	FR	3787	317 Becton	Te-2-9372	Rt. 3, Hertford, NC
Williams, Edward H., Jr.	FR			Te-2-4160	302 Capital Apt., Raleigh, NC
Williams, Emmet R.	FR		2832 Hillsboro		Rt. 3, Clinton, NC
Williams, Francis W.	FR	4788	361 Tucker	Te-2-9323	2333 Greenway Ave., Winston-Salem, NC
Williams, Frank M.	SC		58-1, Raleigh	Te-2-2556	Box 187, Matthews, NC
Williams, George B.	SC	15257	126-C Bragaw	Te-2-9120	724 Stanfield Dr., Charlotte, NC
Williams, George G.	SR		308 Horne St.	Te-2-7050	154 Dorchester, Asheville, NC
Williams, George W. III	JR	15229	110-C Bragaw	Te-2-9180	503 W. Side Dr., Lexington, NC
Williams, Harold J.	SC	15195	421-B Bragaw	Te-4-9757	Rt. 3, Apex, NC
Williams, Harrell F.	JR		12 E. Dixie Dr.		204 Fine, Morganton, NC
Williams, Howard E.	SC	4221	124 Turlington	Te-4-9279	1006 N. Bishop Ave., Dallas, Tex.
Williams, James D.	FR	471	216 Owen	Te-2-9410	205 Carolina Ave., Spencer, NC
Williams, James F.	SR	15127	313-D Bragaw	Te-4-9179	502 Fairview Dr., Lexington, NC
Williams, James S.	GR			Te-3-2612	2614 Kilgore Ave., Raleigh, NC
Williams, James V., Jr.	SC	5667	162C Hillsboro	Te-2-5531	62 Westwood, Mobile, Ala.
Williams, Jerry O.	SR	4316	209 Berry	Te-2-9363	1441 Berkton St., Alcoa, Tenn.
Williams, Joel L.	FR	4403	105 Owen	Te-2-9437	Rt. 2, Fink Hill, NC
Williams, John T.	FR	4449	158 Owen	Te-2-9115	505 W. 27th St., Lumberton, NC
Williams, John W.	JR	15384	412-B Bragaw	Te-4-9754	Box 362, Weldon, NC
Williams, Joseph S. III	JR	4456	165 Owen	Te-2-9115	4514 High Point Rd., Greensboro, NC
Williams, Larry T.	FR	4493	239 Owen	Te-2-9252	108 W. 4th Ave., Gastonia, NC
Williams, Lewis A.	SC			Te-2-6678	130-H Cox Ave., Raleigh, NC
Williams, Milton G., Jr.	SR		2512 Clark	Te-2-843	703 Edwards Ave., Kinston, NC
Williams, Myron R.	SC		2702 Hillsboro	Te-2-1835	1502 W. Virginia Ave., Dunbar, W. Va.
Williams, Norwood L.					
Williams, Phillip R.	SR		1622 Park Dr.	Te-2-3489	Rt. 7, Box 107, Fayetteville, NC
Williams, Raymond W.	SC	4559	348 Owen	Te-2-9300	Jen. Del., Kannapolis, NC
Williams, Richard F.	FR	4179	316 Alexander	Te-2-6349	327 Glenburney, Fayetteville, NC
Williams, Robert D.	FR	4477	222 Owen	Te-2-9420	Rt. 1, Staley, NC
Williams, Robert D., Jr.	JR		R-3 Shelton apts.	Te-2-9259	411 Suster Dr., Clinton, NC
Williams, Rodger D.	SC	3126	208 Fourth	Te-2-9259	8000 Guster, Bethesda 14, Md.
Williams, Roy D.	SC		191A Park Dr.	Te-2-3698	Rt. 1, Box 165, West End, NC
Williams, Royce Lee	SR	4501	250 Owen	Te-2-9252	Box 958, Granite Quarry, NC
Williams, Sophronia I.	FR			Te-4-4248	1301 Brooks Ave., Raleigh, NC
Williams, Stephen L.	FR	4528	312 Owen	Te-4-9836	1703 Lane St., Kannapolis, NC
Williams, Sue Ellen	FR		2207 Hope St.	Te-3-6666	1508 Princeton, Charlotte, NC
Williams, Warren A.	SC			Te-2-2191	1015 Brooks Ave., Raleigh, NC
Williams, William D., Jr.	SC	3701	101 Becton	Te-2-9256	P.O. Box 134, Lilesville, NC
Williams, Wilton A.	FR		124 E. Park Dr.	Te-2-2420	Rt. 1, Monroe, NC
Williams, Winfred L., Jr.	JR	4450	159 Owen	Te-2-9115	Rt. 2, Marshville, NC
Williamson, Gerald L.	JR	4659	152 Tucker	Te-2-9388	507 Hollock St., Kinston, NC
Williamson, Richard H.	JR		304 E. Park Dr.	Te-2-7638	19 Orchard, Canton, NC
Williamson, Wayne T.	GR		UK-27 Vetville	Te-2-5037	48 Kent Ave., Charleston, SC
Williford, Harold D.					
Willingham, Obie R., Jr.	FR	4342	9 Berry	Te-2-9350	Rt. 2, Pisgah Forest, NC
Willis, Chandler A., Jr.	JR	3705	105 Becton	Te-2-9256	Rt. 2, Candler, NC
Willis, Carlton H.	JR		42 W. Dixie Dr.		Stacy, NC
Willis, Charles A.	GR		835-D Daniels St.	Te-4-5046	Raleigh, NC
Willis, James B., Jr.	JR			Te-3-5196	1429 Beaver Dam Rd., Raleigh, NC
Willis, Joseph W.	JR	3122	204 Fourth	Te-2-9159	Rt. 3, Lawndale, NC
Willis, Lee A., Jr.	FR	3255	207 Welch	Te-2-9119	Bayboro, NC
Willis, Thomas H.	FR	3808	6 Becton	Te-2-9241	4201 Tangle Dr., Charlotte 7, NC
Willoughby, James F.	JR	3320	120 Bagwell	Te-4-9219	1424 Cypress St., Rocky Mt., NC
Willis, Carl D.	SR			Te-4-4069	205 Ioplar St., Raleigh, NC
Wilson, Horace S.	SR		518 Cleveland St.	Te-3-1566	Raleigh, NC
Wilson, Charles S.	FR	3578	314 Syme	Te-2-5222	2020 Midwood Pl., Charlotte, NC
Wilson, Daniel M.	FR	4474	219 Owen	Te-2-9410	Rt. 4, Marion, NC
Wilson, Donald P.	FR	15031	117-C Bragaw	Te-2-9329	154 Kings Rd., Shelby, NC
Wilson, Fred E., Jr.	SR		2512 Clark	Te-2-6843	505 Parkway, High Point, NC
Wilson, George H.	SC	3250	262 Welch	Te-2-9119	
Wilson, Harold D.	SR			Te-2-2044	1938 Smallwood Dr., Raleigh, NC
Wilson, James J.	JR	4135	203 Alexander	Te-4-9746	317-50th St., Newport News, Va.
Wilson, James L.	SR		502 Outler St.		15 Cedar St., Belmont, NC
Wilson, James F. II	FR	4128	219 Alexander	Te-4-9746	P.O. Box 64, Kannapolis, NC
Wilson, Jerry M.	JR	815-C	815-C Daniels St.	Te-2-5356	Rt. 3, Winston-Salem, NC
Wilson, Jimmie R.	SR		137 Gardner St.	Te-2-765	RFD 1, Hendersonville, NC
Wilson, Julian B.	FR	4359	14 Stadium		Liberty, NC
Wilson, Lanis R.	FR	3504	104 Syme	Te-2-7288	309 Benjamin St., Durham, NC
Wilson, Lee O.	FR	4744	312 Tucker	Te-4-9739	Box 177, Four Oaks, NC
Wilson, Louis C.	FR	3743	209 Becton	Te-2-9334	1502 Carey Rd., Kinston, NC
Wilson, Mark G.	JR	15106	303-C Bragaw	Te-4-9179	Wilson's Mills, NC
Wilson, Monty D.	JR		2314 Hillsboro		437 E. St. Wright-Fatterson AFB, Dayton, Ohio
Wilson, Neil Carver	SR		3115 Douglas St.	Te-2-3082	517 W. Warren St., Shelby, NC
Wilson, Richard L.	SR	15142	419-C Bragaw	Te-2-5312	102 Edgewood, Morganton, NC
Wilson, Robert E.	SR	3256	208 Welch	Te-2-9119	Rt. 2, Lawndale, NC

NAME	YR	BOX	COLLEGE ADDRESS	TELEPHONE	HOME ADDRESS
Wilson, Stephen M.	FR	3359	227 Bagwell	Te-2-9131	712 Deal Ave., Newton, NC
Wilson, Walter H., III	SR		16 Horne St.	Va-8-9525	1542 Overbrook Ave., Winston-Salem, NC
Wilson, Walter T.	JR	5667	1620 Hillsboro	Te-2-9353	8 Hege Dr., Lexington, NC
Wilson, William L.	FR	4434	140 Owen	Te-2-9115	P.O. Box 284, Rutherfordton, NC
Wilson, William O.	SR		16 Enterprise St.	Te-3-2093	Stoneville, Leaksville, NC
Wilson, William T.	SR		17 Enterprise St.	Te-4-6510	P.O. Box 551, Robersonville, NC
Wilson, William W.	SO	4142	213 Alexander	Te-4-9746	240 N. Mulberry St., Statesville, NC
Wilson, Winfred G.	SO	15314	304-A Bragaw	Te-4-9253	610 Woodbriar La., Burlington, NC
Winchester, Samuel C.	SR		E-2B Shelton Apts.	Va-8-2895	Rt. 2, Box 93, Greenville, NC
Wimmer, Neil J.	GR			Ca-7-4660	4-B Brookwood Apt., Burlington, NC
Windham, Jimmy H.					Box 608, Wake Forest, NC
Windle, William C., Jr.	SO	4199	339 Alexander	Te-2-9349	516 Warren St., Williamston, NC
Windle, William T.	JR			Te-4-3047	1210 Ghaney Rd., Raleigh, NC
Wingfield, Julian C., Jr.	SR			Te-2-4603	3302 Dunn Ave., Raleigh, NC
Winkler, Ida Lee					509 Gardner, Raleigh, NC
Winkler, John L.	SO			Te-2-1310	509 Gardner St., Raleigh, NC
Winn, Robert D., Jr.	FR	3748	214 Becton	Te-2-9334	Rt. 1, Mooresboro, NC
Winn, Thomas F.	FR	4669	162 Tucker	Te-2-9388	71 Pilgrim Rd., Wellesley, Mass.
Winn, Walter G., Jr.	FR	3550	218 Syme	Te-2-9150	1810 Perry Ave., Wilmington, NC
Winslow, James H.	FR				Rt. 1, Box 5, Elizabeth City, NC
Winslow, Thomas F.	FR	3301	101 Bagwell	Te-4-9219	Star Rt., Winfall, NC
Winstead, David S.	JR		302 Horne St.	Va-8-6673	302 Horne St., Raleigh, NC
Winstead, Harold R.	SR	4588	54 Owen	Te-2-9142	Rt. 3, Nashville, NC
Winstead, Harry W., Jr.	SR		125 Cox Ave.	Te-2-4891	Box 159, Woodsdale, NC
Winstead, James F.	FR	4115	118 Alexander	Te-2-9257	302 Greene, Greenville, NC
Winstead, Joseph T.	SO	3306	106 Bagwell	Te-4-9219	302 Greene, Greenville, NC
Winters, John D.	FR	4357	12 Stadium		Hayes, Va.
Winston, Raymond S.	JR			Te-3-4763	3007 Mayview Rd., Raleigh, NC
Wintzer, Charles D.	SO	677	204 Tucker	Te-2-9387	Rt. 1, Box 481-E, Morganton, NC
Wirakusumah, Sambas	GR	214	202 Gold	Te-2-9159	10 Djalau Kentjana, Bandung, Indonesia
Wise, James Oliver	GR			Te-4-4734	2726 Clark, Raleigh, NC
Wise, Jerry R.	FR	3794	326 Becton	Te-2-9372	Rt. 2, Box 45, Salisbury, NC
Wise, Joe M.		15305	224-D Bragaw	Te-4-9123	206 Ware St., Shelby, NC
Wiseman, Daniel M.	SO	3351	219 Bagwell	Te-2-9131	1951 Guy St., Statesville, NC
Wiseman, Mose B.	JR	213	Rt. 1, Gary		Rt. 8, Box 299, Salisbury, NC
Wiseman, Omar R.	SO	15257	126-C Bragaw	Te-2-9180	Rt. 3, Marion, NC
Wiseman, Steven S.	FR	4634	123 Tucker	Te-2-9367	Rt. 2, Box 191-A, Spruce Pine, NC
Wiser, Allen C.	FR	193	703 N. Harrison Ave.	Ho-7-2933	Cary, NC
Wiser, Betty A. H.	GR			Te-4-2114	1617 Sunrise Ave., Raleigh, NC
Wiser, Edward H.	GR			Te-4-2114	1617 Sunrise Ave., Raleigh, NC
Witherington, Charles M.	JR	15185	415-D Bragaw	Te-4-9757	P.O. Box 158, Vanceboro, NC
Withers, James C.					510 N. Second Ave., Siler City, NC
Wohlbruck, Theodore C., Jr	SO			Te-4-0414	2612 Glenwood Ave., Raleigh, NC
Wojcik, Ronald	JR	15325	308-D Bragaw	Te-4-9253	98 S. 26th St., Pittsburgh 3, Pa.
Wolger, Jane Ann	SR		2210½ Hope St.	Te-2-8971	P.O. Box 100, Fatsville, NC
Wolfe, Jared D.	SR				624 N. East St., Raleigh, NC
Wolfe, Lawrence A., Jr.	SR	3577	313 Syme	Te-2-9222	Box 234, Bessemer City, NC
Wolfe, Mark G.	FR	3756	222 Becton	Te-2-9334	1027 Redding Rd., Asheboro, NC
Wolfe, Stephen P.	SR		2210½ Hope St.		Jamesville, NC
Wolfer, Robert C.	JR	15143	321-C Bragaw	Va-8-3154	319 S. 4th St., Pekin, Ill.
Womack, Hester C.					1105 Iredell St., Durham, NC
Womble, Albert B.	FR	3621	25 Syme	Te-2-9421	Rt. 6, Jonesboro, Sanford, NC
Womble, David A.	JR		1110 Farker St.	Te-3-8104	Rt. 1, Elm City, NC
Wong, Lin Woong	JR	3259	211 Welch	Te-2-9119	408 Hillsboro St., Raleigh, NC
Wood, Edgar Raymond, Jr.	FR	4110	213 Alexander	Te-2-9257	Brehon St., Warrenton, NC
Wood, James M.	SR		2514 Clark	Te-3-4522	9838 93rd Ave. N., St. Petersburg, Fla.
Wood, Richard F., Jr.	JR	15145	323-A Bragaw	Te-4-9179	206 Dinwiddle, Portsmouth, Va.
Wood, Roy Lynn	SO	4594	60 Owen	Te-2-9142	4201 Hanning St., Fayetteville, NC
Wood, Thomas J.	SR		1305 Duplin Rd.	Te-2-6506	Box 386, Raeford, NC
Wood, William H.	SR		5206 Asbury Cr.	Te-3-5867	Rt. 1, Hendersonville, NC
Woodall, Leigh C., Jr.	FR	3520	120 Syme	Te-2-9288	505 Gold St., Wilson, NC
Woodard, Barney F., Jr.	FR	3816	14 Becton	Te-2-9261	Box 5, Princeton, NC
Woodard, Jesse F.	FR	4141	212 Alexander	Te-4-9746	Box 74, Kenly, NC
Woodard, Joseph R.	GR			Te-3-4155	3319 Milton Rd., Raleigh, NC
Woodhouse, Orville L.		4767	337 Tucker	Te-2-9323	Grandy, NC
Woodley, James L., Jr.	SO	4729	262 Tucker	Te-2-9387	972 S. Cox St., Asheboro, NC
Woodman, Richard C.				Ho-7-4206	Rt. 1, Cary, NC
Woodruff, James R.					701 Brooks Ave., Raleigh, NC
Woods, Alvin E.	GR		3005 Leonard St.		Rt. 5, Hartsboro, Tenn.
Woods, Edward L.	JR		130 Woodburn Rd.		4824 N. Tryon St., Charlotte, NC
Woods, Hugh W.	FR			Te-3-6189	1508 Banbury Rd., Raleigh, NC
Woods, Robert H.	FR	4723	256 Tucker	Te-2-9387	Rt. 2, Hillsboro, NC
Woodside, Robert M.	GR	15025	115-A Bragaw	Va-89733	
Woodson, John W.	FR	4215	118 Turlington	Te-4-9276	6 David's La., Chase City, Va.
Woodstein, Malcolm	SO	3380	317 Bagwell	Te-4-9151	38 Bedford Terr., Irvington, NJ
Woodward, James A.	GR	5534	State Col. Stat.		P.O. Box 105, Suffolk, Va.
Woody, Charles O., Jr.	GR		5237 Vann St.	Te-4-8736	210 Church St., Somerville, Tenn.
Woody, John W.	FR	4158	229 Alexander	Te-4-9746	301 First St., Leaksville, NC
Wollett, William L.	FR	4767	337 Tucker	Te-2-9323	Hallister, NC
Woodard, Michael G.	FR	3368	302 Bagwell	Te-4-9151	N. Main St., Robersonville, NC
Woolwine, Ronald S.	SR		Wickers T. Ik.		705 Tuckasee Rd., Mt. Holly, NC
Wooten, Simeon A., Jr.					
Word, Leonard M.	JR	5665	2514 Clark	Te-3-4522	4000 Dogwood Dr., Greensboro, NC
Workman, Dwan D.	JR	4662	205 Owen	Te-2-9410	Rt. 3, Chillicothe, Ohio
Workman, Gary F.	JR	4634	123 Tucker	Te-2-9367	214 Westchester Dr., High Point, NC
Workman, Marion G., Jr.	FR	4263	238 Turlington	Te-2-9297	Rt. 4, Box 216, Nebane, NC
Workman, Robert C.					3541 Apache Dr., Raleigh, NC
Worsham, Arch D.	GR		2105 Oakview Ct.	Te-2-4156	

NAME	YR	BOX	COLLG ADDRESS	TELEPHONE	HOME ADDRESS
Worsley, David F.	SO		1200 1/2 Clifton St.	Va-6-6123	Box 111, Oak City, NC
Worthington, Kenneth A.	FR	3720	120 Beaton	Te-2-9256	At. 1, Snow Hill, NC
Worthington, Thomas H., Jr.	SR		Rt. 1, Raleigh		106 S. 21 St., Wilmington, NC
Wortman, Billy Leonard	FR	4807	57 Tucker	Te-2-9237	Rt. 3, Box 28, Morganton, NC
Wray, LeRoy I.	SO	15180	413-D Bragaw	Te-4-9757	300 Seneca Rd., Charlotte, NC
Wray, Stough A., Jr.	SR		982 Harp Terr.	Te-4-5955	920 W. Elm, Shelby, NC
Wrenn, Alison Ann.	FR			Te-3-3486	1708 Iark Dr., Raleigh, NC
Wrenn, Roscoe Lee	SR				112 Harrison Ave., Raleigh, NC
Wrenn, Vance W., Jr.	FR	4427	132 Owen	Te-2-9437	51x Fork Rd., Raleigh, NC
Wright, Bruce W.	JR	15188	417-C Bragaw	Te-4-9757	119 Winneett Cir., Plymouth, NC
Wright, Farris S.	GR		Rt. 1, Cary	Ho-7-2923	Rt. 1, Grover, NC
Wright, James A.	SR		3005 Leonard St.		Rt. 3, Marion, NC
Wright, Jeffery E.	SO		2209 1/2 Hope St.	Te-4-3244	Rt. 4, Burlington, NC
Wright, Joseph F., Jr.	FR	4476	121 Owen	Te-2-9252	330 Whitmire, Brevard, NC
Wright, Larry G.	JR	3593	329 Syme	Te-2-9222	Box 123, Landis, NC
Wright, Milton D.	SO	4517	267 Owen	Te-2-9252	Rt. 1, Shelby, NC
Wright, Owen D.	SR	15284	214-D Bragaw	Te-4-9123	Rt. 3, Box 26, Henderson, NC
Wright, Percy W.	SR		701 1/2 Brooks Ave.	RFD 4, Marion, NC	
Wright, Raleigh Thomas, Jr.	FR	3369	303 Bagwell	Te-4-9151	421 S. Willow St., Dallas, NC
Wright, Teddy J.	FR	4724	257 Tucker	Te-2-9387	501 Wisconsin St., Spindale, NC
Wyatt, George H.	JR			Va-8-6787	1008 Tower St., Raleigh, NC
Wyke, Thomas F.	JR		1501 Benehan St.	Te-4-0271	615 Tina Dr., Shelby, NC
Wyman, John L.	PROF	15071	211-C Bragaw	Te-2-9185	1210 E. Beech, Goldsboro, NC
Wyrick, Clyde L., Jr.	SR	4157	228 Alexander	Te-4-9746	Rt. 3, Box 202A, Lumberton, NC
Yamamoto, Willy German	GR	5261	520 Highland Ave.	Va-6-5308	520 Highland Ave., Raleigh, NC
Yancey, Howard B., Jr.	FR	4493	239 Owen	Te-2-9252	425 Thomas Tr., Gastonia, NC
Yandle, John M.	JR	4505	254 Owen	Te-2-9252	Box 458, Paw Creek, NC
Yang, Myron H.			D-11 Married Stu. Ho.		
Yang, Shung-jun	GR		Field Crops Dept.		30 Sublane 29, Lane 33, Section 1, Changan Rd. E., Taipei, Taiwan
Yao, David Chun Tao	GR	3225	301 Gold	Te-2-9263	14 Happy View Terr., 2nd Floor, HongKong
Yao, Joe	GR		2726 Clark	Te-3-1482	35 Chun Hsin Lane, Taichung, Formosa
Yarborough, Alonzo F.	FR	4272	309 Turlington	Te-2-9192	3908 Gracemont Dr., Winston-Salem, NC
Yeh, Hou Leh					7 Maiden Lane, Raleigh, NC
Yionoulis, Stevie M.	GR		1702 1/2 Hillsboro		805 W. Nash, Wilson, NC
Yip, Jimmy Der	JR	15378	408-D Bragaw	Te-4-9754	219 W. Ray, High Point, NC
Yniguez, Amador D'Bayan	GR		116 Forrest Rd.		College, Laguna, Philippines
Yniguez, Kenaida Reues	GR		116 Forest Rd.		College, Laguna, Philippines
Yokely, Ronald B.	SO	3029	211 Watauga	Te-4-9132	132 Underhill, High Point, NC
Yonts, Woodrow L., Jr.	SR		2533 Greenway Ave.	Va-8-3619	2533 Greenway Ave., Raleigh, NC
Yopp, Angela	FR		Rt. 2, Box 281, Clayton		Rt. 1, Sneads Ferry, NC
York, Arthur R.	FR	4662	155 Tucker	Te-2-9388	15 Sunset Tr., Asheville, NC
York, Carey F.	SO		6 Ferndeil La.	Te-2-2256	Box 351, Pinetops, NC
York, Ernest W.	FR		3821 Western Blvd.		Gen. Del., Rameur, NC
York, George S.	SO			Va-8-3434	1504 Craig St., Raleigh, NC
York, James W., Jr.	SR			Va-8-3434	1904 Craig St., Raleigh, NC
Yorke, Charles A.	SR	15023	111-C Bragaw	Te-2-9129	Rt. 3, Concord, NC
Young, Charles W.	SO				211 Charlotte, Asheville, NC
Young, Harrison C.	SO	4334	1 Berry	Te-2-9350	2703 Avent Ferry Rd., Raleigh, NC
Young, Jerry W.	GR		1 1/2 Dixie Tr.		53, Lane 103, S. Shengshan Rd., 1st Sect. Taipei, Taiwan, China
Young, Jing-Jue	GR				100 Cisco Rd., Asheville, NC
Young, John M.	JR	4563	325 Owen	Te-4-9836	Worwood, NC
Young, Kermit L.	SO		728 Chamberlain	Te-4-0451	1216 Richardson Dr., Reidsville, NC
Young, Nelson W.	SR	5566		Te-4-8228	Irincton, NC
Young, Richard A.	FR	4777	350 Tucker	Te-4-9828	19 Stargis, Port Bragg, NC
Young, Whitney L., Jr.	SO	3339	207 Bagwell	Te-2-9131	Rt. 1, Cary, NC
Young, William V.	SR			Va-8-3165	Rt. 1, Huntersville, NC
Youngblood, William P.	SO	15059	205-C Bragaw	Te-2-9185	309 Eugen St., Gibsonville, NC
Younger, Ethel L.	UN		0-24 Married Stu. Ho.	Te-2-6192	37/63 Jami Kazam, Housli, Iraq
Al-Youngis, Abdul Ahmed	GR		456 PC Williams Hall		519 Dick St., Gibsonville, NC
Younger, Robert L.	SO		0-24 Married Stu. Ho.	Te-2-6192	804 Forest, Lynchburg, Va.
Younger, Ronald Lee	SR	341	Rt. 1, Cary		Rt. 2, Box 220, Newton, NC
Yount, Avery L.	SO	15394	416-C Bragaw	Te-4-9754	Rt. 2, Box 226, Newton, NC
Yount, James L.	SO	15393	416-B Bragaw	Te-4-9754	Rt. 2, Box 205, Conover, NC
Yount, Roy W.	SO	15133	317-A Bragaw	Te-4-9179	at. 2, Lexington, NC
Younts, Joel L.	SO	4671	164 Tucker	Te-2-9388	Rt. 1, Box 15, Seagrove, NC
Yow, John R.	JR		2312 Hillsboro		Rt. 1, New London, NC
Yow, Larry M.	SR	3014	114 Watauga	Te-2-9447	58 Cedar Lane, Irincton, NC
Yurcho, Robert J.	FR	4139	112 Alexander	Te-4-9657	134 Great Sea St., Giza, Egypt, UAR
Zaalouk, Mohamed Gamal	GR	5803	5 Paisy St.	Te-3-9790	39 Morria St., Elminia, Egypt
Zaki, Mohamed Abdel Halim	GR	5805	State Col. Stat.	Te-4-2672	145 Pine St., Garden City, NY
Zangas, Robert J.	SO	15151	325-C Bragaw	Te-4-9179	Misa Rayon Co., Alexandria, UAR
El Sarka, Aida Aly	UN				133 Hudson St., Reading, Pa.
Zeiber, Dallas R.	SO	4635	124 Tucker	Te-2-9388	18 Noodley Ave., Asheville, NC
Zeis, Steve E.	SR	5754	State Col. Stat.		1508 Fowell Dr., Raleigh, NC
Zemel, Tarik	SR	5793	State Col. Stat.		Zemel Apt. 9, Gussusyu, Istanbul, Turkey
Ziglar, Frank C.					22 Bond Pk. Rd., Great Neck, NY
Zinn, Richard M.	SO	15316	304-C Bragaw	Te-2-7638	Rt. 4, Raleigh, NC
Zebel, Donald B.	FR	4113	116 Alexander	Te-2-9257	10 St. Loudjalla, Cairo, UAR
El Zoghby, Kawther A. M.	GR	5805	State Col. Stat.		Raleigh, NC
Zook, James R.	PROF		719 Chamberlain		343 Huguenot Ave., Union, NC
Zuckerman, David S.	FR	4801	51 Tucker	Te-2-9186	510 Willowbrook, Greensboro, NC
Zwicky, Henry A.	SO	15344	318-B Bragaw	Te-4-9352	

State College P.B.X.	TE 4-5211	2nd Floor	TE 2-9185
State Capitol P.B.X.	TE 4-3611	3rd Floor	TE 4-9179
Ambulance	TE 2-8839	4th Floor	TE 4-9757
Infirmary	TE 2-7615	Bragaw, N. Wing Even	
Fire Department	TE 2-7733	1st Floor	TE 2-9180
Police Department	TE 4-5261	2nd Floor	TE 4-9123
		3rd Floor	TE 4-9253
		4th Floor	TE 4-9754

COLLEGE

Agriculturist	Ext. 331	Owen, Basement	TE 2-9473
Agromeck	TE 2-9909	Owen, 1st Floor	TE 2-9115
Athletic Department	TE 2-2407	Owen, 2nd Floor	TE 2-9252
Alumni Office	TE 3-1010	Owen, 3rd Floor	TE 4-9300
Coliseum	TE 2-0523	Syme, Basement	TE 2-9421
College Cafeteria	TE 3-4825	Syme, 1st Floor	TE 2-9288
College Union, Ext 378	TE 4-7318	Syme, 2nd Floor	TE 2-9150
Dormitory Rentals	Ext. 349	Syme, 3rd Floor	TE 2-9222
Laundry	Ext. 283	Tucker, Basement	TE 2-9186
News Bureau	Ext. 253	Tucker, 1st Floor	TE 2-9388
Power Plant	Ext. 234	Tucker, 2nd Floor	TE 2-9387
Nights and Sundays	TE 3-8528	Tucker, 3rd Floor	TE 2-9323
Registration Office	Ext. 219	Turlington, 1st Floor	TE 4-9279
Sports Publicity Office	TE 3-5620	Turlington, 2nd Floor	TE 2-9297
Student Activities	Ext. 370	Turlington, 3rd Floor	TE 2-9192
Division of Student Affairs	Ext. 456	Watauga, 1st Floor	TE 2-9447
Student Aid and Employment	Ext. 460	Watauga, 2nd Floor	TE 2-9132
Student Government	TE 2-8738	Watauga, 3rd Floor	TE 2-9488
Student Housing	Ext. 434	Welch	TE 2-9119
Student Personnel	Ext. 224		
Student Supply Store	TE 2-3674		
Technician	TE 2-4732		
Television - WUNC	TE 4-6262		
Wolfpack Club	TE 4-2241		
WUNC Radio Station	TE 2-7861		
YMAA Ext. 202	TE 2-7184		

FRATERNITIES

IPC, 7 Enterprise St.	TE 4-0435
Alpha Gamma Rho, 2718 Clark Avenue	TE 2-6451
Delta Sigma Phi, Box 5566	TE 4-8227
Farm House, 1718 Hillsboro St.	VA 8-4464
Kappa Alpha, 1710 Hillsboro St.	TE 4-2001
Kappa Sigma, 2612 Clark Avenue	TE 2-9484
Lambda Chi Alpha, 222 Hillcrest	TE 2-3429
Phi Epsilon Pi, 130 Hawthorne Road	VA 8-3347
Phi Kappa Tau, 308 Horne Street	TE 2-7050
Pi Kappa Alpha, 1720 Hillsboro Street	TE 4-0451
Pi Kappa Phi, 7 Enterprise	TE 4-0435
Sigma Alpha Epsilon, 3414 Hillsboro	TE 3-4808
Sigma Alpha Mu, 304 Park Drive	TE 2-7638
Sigma Chi, 2514 Clark Avenue	TE 3-4522
Sigma Nu, 1620 Hillsboro Street	TE 2-9531
Sigma Phi Epsilon, 2512 Clark Avenue	TE 2-4843
Sigma Pi, 2513 Clark Avenue	TE 2-0268
Tau Kappa Epsilon, 2405 Clark Avenue	TE 2-6543
Theta Chi, 1709 Hillsboro Street	TE 3-6901

VETVILLE & MARRIED STUDENT HOUSING

Manager's Office, UK 5	TE 2-4306
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DORMITORIES

Alexander, 1st. Floor	TE 2-9257
Alexander, 2nd Floor	TE 4-9746
Alexander, 3rd Floor	TE 2-9349
Bagwell, 1st Floor	TE 4-9219
Bagwell, 2nd Floor	TE 2-9131
Bagwell, 3rd Floor	TE 4-9151
Becton, Basement	TE 2-9261
Becton, 1st Floor	TE 2-9256
Becton, 2nd Floor	TE 2-9334
Becton, 3rd Floor	TE 2-9372
Berry, Basement	TE 2-9350
Berry, 2nd Floor	TE 2-9363
IDC, 107 Berry	Ext. 348
Fourth Dorm	TE 2-9159
Gold	TE 2-9263
Bragaw, S. Wing Odd	
1st Floor	TE 2-9129

FREQUENTLY CALLED OFF-CAMPUS NUMBERS

Meredith College

(Regulations - Freshmen may not use telephone between 7:30 and 10:00 p.m. week nights, and 11:15 p.m. and 7:15 a.m. Seniors may use dorm phones during study hours. (Limit calls to five minutes.)

Switchboard TE 3-6461

Brewer Dorm 1st floor TE 2-9165

2nd floor TE 4-9294

3rd floor TE 4-9284

Faircloth Dorm 1st floor TE 2-9163

2nd floor TE 4-9209

3rd floor TE 4-9293

Vann Dorm 1st floor TE 2-9166

2nd floor TE 4-9191

3rd floor TE 4-9394

Stringfield Dorm 1st floor TE 2-9160

2nd floor TE 4-9387

3rd floor TE 4-9182

4th floor VA 8-9149

Johnson Hall TE 4-9208

Jones Auditorium TE 4-9284

Peace College

(Regulations - telephone hours on weekdays 2:30 to 6:00 p.m. and 6:30 to 7:30 and 10:00 to 10:40 p.m. All day Saturday and Sunday.)

Switchboard TE 2-2881

St. Mary's College VA 8-2521

Telephone hours as follows:

Weekdays:

8:00 - 2:30 a.m.

1:30 - 1:45 p.m.

3:45 - 5:55 p.m.

6:30 - 7:30 p.m.

9:30 - 10:10 p.m.

Saturday

9:30 a.m. - 12:55 p.m.

1:30 p.m. - 5:55 p.m.

6:30 p.m. - 10:10 p.m.

Sunday

9:00 a.m. - 10:30 a.m.

12:15 p.m. - 12:55 p.m.

1:30 p.m. - 2:00 p.m.

3:30 p.m. - 5:15 p.m.

6:40 p.m. - 10:10 p.m.

No call should be over 3 minutes

Rex Hospital Nurses Home

Switchboard VA 8-6211

(Regulations - no calls to Freshmen between 7:30 and 9:30 p.m. weekdays. No calls may be made after 10:30 p.m.)

State Hospital Nurses Home

Switchboard TE 2-7581

Fay Phone TE 4-9819

YMCA

Main Desk VA 8-3205

3rd floor TE 4-9743

4th floor TE 4-9745

Carolina Hotel TE 2-8811

Southern Bell Telephone Co.

Information 113

Long Distance 0

Telephone out of order 114

Sir Walter Hotel

TE 2-7

Seaboard R. R. Station

Day TE 3-7

Night TE 3-2

Southern R. R. Station

TE 2-6

Union Bus Station

TE 2-5

Western Union

TE 2-7

Taxi

Yellow TE 2-5

Safety TE 2-8

Chaplains at State College

Rev. Oscar B. Wooldridge, Jr., Coordinator of Religious Affairs

Home TE 4-10

Office TE 2-7

Rev. Thomas J. Johnston, Assistant Coordinator of Religious Affairs

Home VA 8-4

Office TE 2-7

Rev. Alan H. Barnes

Home TE 3-3

Moravian Student Fellowship

TE 3-3

Rev. John Cobb

Home TE 2-6

Lutheran Student Fellowship

TE 2-9

Rev. T. Hartley Hall

Home VA 8-4

Westminster Fellowship

VA 8-5

Rev. Neal McGlamery

Home TE 4-9

Wesley Foundation

TE 3-1

Rev. S. Collins Kilbum

United Student Fellowship

TE 2-1

Rev. Roderick Reinecke

Home TE 3-4

Episcopal Canterbury Club

E. S. King Religious Center

Rev. LeRoy Richardson

Home TE 4-5

Baptist Student Union

TE 2-1

Rabbi E. M. Rosenweig

Home 8-5

Hillel Foundation

8-7

210 W. Cameron, Chapel Hill

Father John Breunig

218 Pittsboro St., Chapel Hill

Newman Club, E. S. King Religious

Center TE 2-7

Rev. R. Fred West

Home TE 4-2

Disciples Student Fellowship

VA 8-5

Seventy-second

Annual Commencement

*The North Carolina State College
of Agriculture and Engineering of
the University of North Carolina*

Exercises of Graduation

Saturday, May 27

Nineteen Hundred and Sixty-one

Degrees Awarded 1960-61

MUSICAL PROGRAM

Exercises of Graduation

William Neal Reynolds Coliseum

May 27, 1961

CONCERT, 4:00 P.M.

Lohengrin, Introduction to Act III Wagner

March, Chicago Tribune Chambers

Allerseelen R. Strauss

Procession of Nobles Rimsky-Korsakov

SYMPHONIC BAND

Hymn to the Morning, from "Die Meistersinger" Wagner

Wait For The Wagon (Arranged)—Shaw

Herbert Little, Tenor Soloist

Shenandoah (Arranged)—Bartholomew

I Hear A Voice A-Prayin' Bright

MEN'S GLEE CLUB

Great Gate of Kiev Moussorgsky

PROCESSIONAL, 4:30 P.M.

Processional March Borowski

RECESSIONAL

University Grand March Goldman

SYMPHONIC BAND

Robert A. Barnes, Director of Music

J. Perry Watson, Assistant Director of Music

Donald B. Adcock, Acting Director of Bands

COMMENCEMENT PROGRAM

Exercises of Graduation

William Neal Reynolds Coliseum

May 27, 1961

PROCESSIONAL, 4:30 P.M. Donald B. Adcock
Conductor, North Carolina State College Symphonic Band

The audience is requested to remain
seated during the processional

WELCOME John T. Caldwell
Chancellor, North Carolina State College

INVOCATION Thomas M. Johnston, Jr.
Assistant Coordinator of Religious Affairs

SPECIAL MUSIC "This Is My Country"
North Carolina State College Symphonic Band and Men's Glee Club
J. Perry Watson, Conductor

ADDRESS: "Man: Whence and Whither" George Wells Beadle
Chancellor, University of Chicago

CONFERRING OF DEGREES John T. Caldwell
Chancellor, North Carolina State College
John W. Shirley
Dean of the Faculty

Candidates for baccalaureate degrees presented
by Deans of Schools. Candidates for advanced
degrees presented by the Dean of the Graduate
School. Candidates for honorary degrees pre-
sented by the Chancellor.

AWARDING OF GOODWIFE DIPLOMAS James Robert Cooke
President of Student Government

ANNOUNCEMENTS OF OUTSTANDING
TEACHER AWARDS Roger Lee Mozingo
President, Class of 1961

REMARKS TO THE GRADUATING CLASS William C. Friday
President, Consolidated University of North Carolina
Terry Sanford
Governor of North Carolina

BENEDICTION

RECESSIONAL

The audience is requested to remain seated
until recessional music is concluded.

DEGREES CONFERRED

May 27, 1961

School of Agriculture



BACHELOR OF SCIENCE IN AGRICULTURAL ENGINEERING

Jointly administered by Schools of Agriculture and Engineering

Shelton Young Adcock	Henderson
James Robert Cooke	Huntersville
Billy Hobbs Jones	Hertford
†Sidney Edward Law	Pelham

BACHELOR OF SCIENCE

Agricultural Economics

Ernest Ray Blackman	Hallsboro
Lewis Russell Cabe	Franklin
†Worth Frederick Cone	Spring Hope
†Yoel Haitovsky	Haifa, Israel
Robert Davis Lee	Norwood
†Charles Harvey Little	Kenly
DeWitt Miller	Beulaville
Thomas Wayne Miller	Tabor City
Wayne West Phillips	Snow Hill
Robert Glenn Richardson, Jr.	Durham
Robert Edmundson Sanders	Clayton
Lewis Marvin Upchurch, Jr.	Raeford
†Robert Penn Webster	Stoneville
Harold Roger Winstead	Nashville

Agricultural Engineering

Daniel Marcus Boyd, III	Lincolnton
Fountain Gwyn Voss, Jr.	Laurinburg

†Honors; ‡High Honors.

Animal Industry

†Talmage Thurman Brown, Jr.	Raleigh
Lauder Eugene Calhoun, Jr.	Laurinburg
John Harrelson Hardage	Norlina
Ted Williams Luther	Candler
George Raleigh McColl, Jr.	Thomasville
†Charles Fredrick Mann	Canton
Edwin Lee O'Briant	Whitakers
William Jenkins Summey	Dallas
James Alton Sutton, Jr.	Thomasville
Gerald Bell White	Statesville

Botany

Robert Douglas Lumsden	Falls Church, Va.
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Dairy Manufacturing

Atlas Gordon Neville	Chapel Hill
†Lawrence Abernathy Wolfe, Jr.	Bessemer City

Entomology

†Wayne Maurice Brooks	Raleigh
Walter Hugh Wilson, III	Winston-Salem

Experimental Statistics

†Yoel Haitovsky	Haifa, Israel
Durwood Herbert Neuse	New Braunfels, Tex.

Field Crops

Cleveland Lipe Barrier, Jr.	Mount Pleasant
Roger Wayne Bone	Nashville
†Chusak Chavengsaksongkram	Bangkok, Thailand
Charles Edward Colson	Norwood
Charles Norman Suddreth	Lenoir
Williams Harper Tharrington	Rocky Mount
Manly Smith Wilder	Middlesex

Horticulture

William Ames Christopher	Franklin, Va.
William Edwin Derrick	Charlotte
Abdul Wahid Mohammad Al-Hachim	Samarra, Iraq
Robert Douglas Lumsden	Falls Church, Va.
†Darrell Sparks	Bakersville
Otho Sylvester Wells	Watha

Poultry Science

Allen Dean Bridges	Shelby
†Walter Martin Britton	Lasker
Anthony Sherril Capps	Smithfield
James Alfred Coble	Liberty

†Honors; ‡High Honors.

William Sandford Edwards	Middlesex
†Kenneth McMillan Lewis	Fayetteville

Rural Sociology

Charles Ross Smith, Jr.	Albemarle
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Soils

Billy Peede Canaday	Bunnlevel
Jerry Burt Fitts	Raleigh
Robert Preston Patterson	Hickory

Zoology

Patricia Louise Garner	Raleigh
Walter Edgar Gray	Roanoke Rapids
Gerald Dean Hardison	Wallace
Allan Conrad Hathcock	Albemarle
†Stuart Alexander Marks	Wilmington
†Wade Thomas Mills	Farmville
Clarence Benjamin Ridout	Raleigh
Bernard Gordon Roberson	Parmele
Hester Crowder Womack	Durham

School of Design



BACHELOR OF ARCHITECTURE

Fred Coleman Abernethy	Hickory
Earl Kai Chann	Kew Gardens, N. Y.
†Frederick Grieger	New York, N. Y.
Joseph Anthony Guerino	Milford, Mass.
†Duncan Gilchrist Hudson, Jr.	Birmingham, Mich.
Howard Leon Johnson	Mount Gilead
James Michael Kinlaw	Lumberton
George Barry Lamm	Wilson
Donald Ross Lee	Charlotte
John Sumter MacRae, III	Greensboro
Charles Albert Miller, Jr.	Richmond, Va.
Joseph Valentine Morog	Tonawanda, N. Y.
Marion Hamilton Morton, Jr.	Albemarle
William Colvin Nichols	Birmingham, Ala.
Martha Drucella Sanders	Sanford
†Thomas Francis Van Aarle, Jr.	Saginaw, Mich.
John Edward Wyman	Goldsboro

BACHELOR OF LANDSCAPE ARCHITECTURE

†Robert Lincoln Phillips, Jr.	High Point
†Honors; ‡High Honors.	

School of Education



BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION

David Scott Coble	Garland
Ernest Harding Cutler	Blounts Creek
Wayland Thomas Davis	Albertson
Charles Wade Edwards	Ramseur
†Walter Allan Edwards	Marshville
†Edwin Poe Elkins, Jr.	Clarkton
Rex Tillman Hatch	Mount Olive
†Richard Terry Liles	Wendell
Carl Morris McLaurin, Jr.	Rockingham
Roger Lee Mozingo	Maury
Robert Lynn Nethercutt	Snow Hill
William Garland Parham, Jr.	Oxford
William Raymond Peele, Jr.	Clayton
Charles Edwin Russell	Jamesville
Ronald Wilson Shearon	Rolesville
Harold Alton Stegall	Norlina
James Floyd Watkins	Knightdale
*John Harold Wells, Jr.	Morganton
†James Franklin Wilder	Spring Hope

BACHELOR OF SCIENCE IN INDUSTRIAL ARTS

Maynard Francis Adams	Raleigh
Jerry Frank Arnold	Spruce Pine
David Graham Ball, Jr.	Raleigh
Hieronymus Clell Bueck	Franklin
Lewis Franklin Carpenter, Jr.	Dallas
David Bruce Elliott	Forest City
John Macy Falkner, Jr.	Oxford
Winthrop Henry Germaine	Mooreville
Charles Worrell Gurkin	Richmond, Va.
Herman Howard Hamrick	Shelby
Phillip Arnold Heffner	Maiden
Royce Hulton Hunsucker, Jr.	Greenville
Marcus Faison Lewis	Roseboro
Donald Charles McNeill	Red Springs
Edward Lee Madre	Hertford
Franklin Gleech Mason	Wilson
Murray Franklyn Massey, Jr.	Greensboro
Charles Houston Meade	Durham
William Ransom Middleton, Jr.	Garner
James Madison Noland	Waynesville
Paul Wilson Poley	Charlotte
Francis Dalton Rackley	Nashville

†Honors; ‡High Honors.

*In Absentia

Henry Clayton Ramsey	Hubert
Charles Herbert Stanford, Jr.	Liberty
James Edwin Summers	Gibsonville
Walter Glenn Taylor	Raleigh
David Reid Wilder	Raleigh
James McConnell Wood	St. Petersburg, Fla.

BACHELOR OF SCIENCE IN MATHEMATICS EDUCATION

Gurney Ellerbe Bracey, Jr.	Red Springs
James Henry Brakebill, III	Knoxville, Tenn.
Cecil Grant Caison	Mebane
William Morrison Crockford	Charlotte
Joe Eric Davis	Charlotte
Marshall Yates Duncan	Clayton
Joyce Hatch Edwards	Mount Olive
William Isaac Fort, Jr.	Henderson
†James Richard Frazier	Charlotte
Stanley Spencer Givetz	Carmel, Calif.
†Frankie Edwards Gurganus	Williamston
Marvin Earl Keech	Pantego
Coy Edwin McClintock	Pleasant Garden
William Louis McElroy	Lake Junaluska
Kenneth Earl Merritt	Clinton
Robert Wayne Roach	Burlington
Ray Caudle Shaw	Ellerbe
Julian Brooks Snipes, Jr.	Pittsboro
Neil Carver Wilson	Shelby

BACHELOR OF SCIENCE IN RECREATION AND PARK ADMINISTRATION

James Gordon Blake, III	Wallace
William Floyd Daughety	Lexington
Curt Weik Eberly	Sheridan, Penna.
Marvin Randolph Harrell	Raleigh
Leon Mason Hartline	Statesville
Teresa Lynn Houser	Asheville
†Carol Holmes Johnson	Raleigh
Thomas William Lane	Butner
Robert Lynn McCann	Philadelphia, Penna.
Richard Fredrick Reynolds	College Park, Md.

BACHELOR OF SCIENCE IN SCIENCE EDUCATION

Frederick Foster Baldwin	Clarkton
William Alonzo Barbour, Jr.	Benson
Douglas Wade Files	Yanceyville

†Honors; ‡High Honors.

School of Engineering



BACHELOR OF SCIENCE IN CERAMIC ENGINEERING

Lawrence Duke Barnes	Atlanta, Ga.
Clarence Eugene Herman	Hickory
William Henry Mason, Jr.	Raleigh
Garland Elmo Scott, Jr.	Pineville
John Washington Pearce Smithwick, II	Smithfield

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

†David Elder Cooper	Cary
‡Charles Alfred Davis	Brevard
Jerry Allen Edwards	Mooreville
Kenneth Vaden Franklin	Cary
Robert Lee Gardner	Raleigh
Robert Nisbet Holt, Jr.	Pantego
†Kenneth Robert Jolls	Raleigh
James William Keistler, Jr.	Great Falls, S. C.
Benjamin Elias Lemons	Winston-Salem
William David Miller	Greensboro
William Monroe Minish	Winston-Salem
†Donald Ross Paul	Bath
Michael Richard Prendergast	Raleigh
†Wilbur Joseph Privott, Jr.	Tyner
Dean Howell Reber	York, Penna.
Robert Eugene Rosensteel	Wilmington
†Charles LeRoy Sanderson	Erwin, Tenn.
Avilino Sequeira, Jr.	Biltmore
George Edward Sprague	Cannonsville, N. Y.
Hemendra Kalidas Thakrar	Porbandar, Gujarat, India
†Milton Guy Williams, Jr.	Kinston
†Samuel Clyde Winchester, Jr.	Greenville

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

William Carl Abernethy	Huntersville
Leon Preston Allman	Charlotte
Douglas Hasten Angel	Kernersville
Marion Wayne Atkinson	White Lake
Thomas Edward Avent	Faison
Carl Jackson Bannerman	Burgaw
†Ray Barnes	High Point
Larry Erwin Barringer	Hickory
Larry Dawson Bordeaux	Ingold

†Honors; ‡High Honors.

Curtis Hugh Bostian	Mooresville
James Stephen Browning	Salisbury
James William Carver	Fayetteville
Richard Dallas Croom	Fayetteville
Joe Kelly Donaldson	Mount Mourne
Larry Gordon Earp	Charlotte
George Alben Eason	Macclesfield
Johnny Lee Elliott	Statesville
Larry Dean Eudy	Charlotte
William Edward Evans	Kinston
David Wayne Fansler	Winston-Salem
Dennis Lee Fox	Gastonia
Thomas Sweet Green	Butner
Herman Curtis Gunter	Fuquay Springs
William Johnny Haire	Albemarle
Thomas David Hall	Pineville
Wayne Hobert Hammond	Raleigh
Alton Winfred Haynes	Asheville
Thomas Woodrow Herring	La Grange
Curtiss Barron Hewlett	Wilmington
Charles Ray Houser	Asheville
Robert Lee Hudson	Roanoke Rapids
Lee Ellis King	Charlotte
Elwood Glenn Lanier	Chinquapin
†Hugh Dallas McDonald	Bunnlevel
Richard Stancil Manning	Williamston
Thomas Feild Marrow, III	Goldsboro
Ronald Matthew Mauney	Shelby
Wayne Bryant Morris	Apex
James Lewis Neal	Providence
William Hawley O'Hanlon	Fayetteville
Wiley Jackson Osborne	Laurel Springs
John Crayton Overton, Jr.	Rocky Mount
Ben Thatch Parker, Jr.	Roanoke Rapids
Melvin Bryan Poulson	Engelhard
Jerry Clark Pullium	Andrews
†Arthur Eugene Reynolds, III	Raleigh
Neil Edward Rochelle	Durham
Charles Richard Rose	Newton Grove
Franklin Arthur Rouse	Kinston
Thurman Leslie Rouse	Deep Run
Neill McKay Salmon, Jr.	Lillington
Claude William Sanford, Jr.	Laurinburg
Carl Horace Saunders, Jr.	Reidsville
Edgar Ralph Shuller, Jr.	Grafton
Howard Wade Smith	High Point
Roy Lee Spainhour	Sanford
†Donald Bennett Stafford	Kernersville
William Eugene Stalcup	Brasstown
Boyd Curtis Steed, Jr.	Atlanta, Ga.
James Eugene Stewart	Clemmons
Finn Roar Teigen	Steinkjer, Norway
David Adams Thorpe	Greensboro
John Lee Trotman	Raleigh
Dexter Coleman Vaughan	Hartsville, S. C.
Percy Linwood Veasey	Durham

†Honors

Glen Edward Walker	Morganton
Woodie Warrick, Jr.	Raleigh
Edward Kendall Whaley	Richlands
Joseph Rudolph White, Jr.	Colerain
Ormond Carol White	Windsor
† Samuel Lee Wilkins	Jacksonville
† Jerry Orway Williams	Alcoa, Tenn.
Donald Paul Wilson	Shelby
William Theodore Wilson	Robersonville
† Charles Alvin Yorke	Concord

BACHELOR OF SCIENCE IN CIVIL ENGINEERING, CONSTRUCTION OPTION

James Kirkham Avent, Jr.	Tarboro
Kenneth Rogers Baggett	Raleigh
Homer Lee Biggers, Jr.	Morganton
James Frank Bivins, Jr.	Elkin
Burl Henderlite Brady	Salisbury
William Robert Brown	Bat Cave
Paul George Burton	Wilmington
Jimmy Gray Carpenter	Monroe
Thomas Barry Davis	Charlotte
Rufus Eugene Edmonds	Elkin
† Julius Edward Ellen	Rocky Mount
Charles Wayne English	Raleigh
James Homer Frye	Hickory
Douglas Alexander George	Greensboro
Eugene Bowers Grant, Jr.	Jackson
Morad Hakimbaba	Teheran, Iran
William Whitfield Hopper, Jr.	Leaksville
James Herbert Hoskins	Spencer
James Howard Hudson	Greenville
Dwight Boyd Kelly	Plymouth
Lawton Ward Kitchin, Jr.	Maxton
Earl Lawrence Lineberger, Jr.	Dallas
Henry Eugene Miller, Jr.	Wilmington
George Francis Mock	Norfolk, Va.
Chappell Nesbitt Noble	Fairview
Gwyn Keith Sanderlin	Norfolk, Va.
Edwin Parker Speight	Sunbury
Robert Lewis Taborn	Greensboro
James Bruce Weaver	Raleigh

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Fujio Abe	Maui, Hawaii
Charles Bennett Aycock	Lilesville
† Von McLoyd Baldwin	Durham
Eldridge Theodore Bales	Winston-Salem
Bennie Lee Barker	Warrensville
Robert Elwin Bennett	King
† Bobby Mac Berry	Burlington
Samuel Joyner Blackwood	Chapel Hill
† John Lawrence Booker	Plymouth
Edward Lee Bowling	Broadway
David Lindsay Boyd	Mooresville
Robert Owen Bridges	Forest City

† Honors; ‡ High Honors.

Harold Dean Broome	Mount Holly
Robert Kaylor Brotherton	Sherrill's Ford
Charles Richard Brown	Winston-Salem
†Henry Alfred Brown	Apex
James Connor Bullard	Charlotte
Ted Ronald Byers	Concord
Donald Byron Campbell, Jr.	Edenton
Ransome Bayes Carnes, Jr.	Cramerton
John Curtis Carr	Goldsboro
†Billy Wayne Carter	Middlesex
Richard Clark Childress	Greensboro
Jack Adams Clark	Sanford
Gene Arthur Clemmons	Clayton
James Miller Collins	Raleigh
Clarence Leon Combs	Draper
Johnny Hugh Cook	Marion
Roy Douglas Cope	Lexington
Edward Max Correll	Monroe
†Oliver Paul Credle	Washington
Finn Bowen Cullom	Raleigh
Bobby Ray Denning	Benson
Jerry Mack Douglas	Raleigh
Homer Franklin Drye	Salisbury
Harry Patton Dunn, Jr.	Danville, Va.
James Barksdale Edmondson	Roanoke Rapids
James Harrison Edwards	Greensboro
Larry Wayne Ellis	Durham
Robert Charles Ellis, Jr.	Shelby
William Ollin English	Watha
Arthur Campbell Farris	Charlotte
Robert Lewis Fowler	Bryson City
†Richard Vernon Fuller	Charlotte
†Oscar Nicolas Garcia	Havana, Cuba
†Hugh Leslie Gerringer, Jr.	Greensboro
†David Dolian Gilliam	Burlington
George Douglas Glover	Ellenboro
Enrique Dimas Gonzalez Romero	La Habana, Cuba
Carl Raymond Goswick, Jr.	Durham
Erving Harrison Gray	Avon
†James Loyd Hamilton	Shelby
†Chase Patterson Hearn	Raleigh
†Benjamin Harvey Henson	Raleigh
†Donald Larry Hester	Stanley
Roy Edward Hoffman, Jr.	Charlotte
Roy Elwood Holmes, Jr.	Charlotte
Oscar Bobby Horton	Roxboro
Wayne Thomas Hudson	Guilford College
Rudolph Hughes, Jr.	Goldsboro
Randall Max Ivey	Wilmington
Raymond Edson Jackson	Burgaw
†Charles Dewey Jamerson, Jr.	Cooleemee
†Thomas Lane Jones	Brevard
Nils Ivar Kjosnes	Winston-Salem
John Elbert Lafferty	Banner Elk
Harvey Glenn Lanier	Maple Hill
Milton Wayne Lee	Stoneville
Ashleigh Martin Lucas	Raleigh
Stuart Warren Luce	Wyncote, Penna.

†Honors; ‡High Honors.

†Carroll Dean Lytle	Old Fort
*Amiel Joseph McCall	Maxton
Charles Duane McCamey	Findlay, Ohio
Arthur Johnson McEwen, Jr.	Charlotte
Thomas David McNeill	Chapel Hill
†Frank Simpson Madren	Ossipee
John Gus Markos	Burlington
Morris Daniel Mintz	Wilmington
Edwin Clarence Myers, Jr.	Alexandria, Va.
Jerry Lee Norton	Wilmington
Neil Frederick Oerter	Winston-Salem
James Edwin Parham	Hildebran
Joe Phipps	Crumpler
George Donald Pulliam	Maxton
Lee Tanya Quick	Wilson
†Wade Edward Radford	Spindale
Charles Allen Richardson	Rockingham
Ronnie Rhett Rippy	Draper
Harris Fleming Rush	Asheboro
Kenneth Eugene Shanks	Kernersville
Edward Russell Smith	Kinston
Frank Houston Smith, Jr.	Raleigh
Glendon Carlyle Smith	Kannapolis
†Nelson Byrd Stall	Newport News, Va.
Arthur Wallace Stamey, Jr.	High Point
Gary Lloyd Stanford	Sylva
†Ronald Lee Starliper	Waynesboro, Penna.
Oliver Nathaniel Swanson, III ..	Pilot Mountain
Ralph Berlyn Temple	Newport
Calvin Jackson Thomas	Marion
Oscar Everett Triplett, Jr.	Raleigh
†James Edwin Tysinger	Franklin
†Herbert Bryant Walker	Old Fort
†Jefferson Hiden Walker, Jr.	Newport News, Va.
David Baker Whitley	Washington
Lewis Arnold Williams	Charlotte
Thomas Hugh Worthington, Jr.	Wilmington

BACHELOR OF SCIENCE IN ENGINEERING MATHEMATICS

Charles Broadus Foushee, Jr.	Sanford
Stanley Eugene Hendrick	High Point
William Mettrey, Jr.	Raleigh
Averette Floyd Nash	St. Pauls
†Samuel Clyde Winchester, Jr.	Greenville

BACHELOR OF SCIENCE IN ENGINEERING PHYSICS

Nathan Kinney Bales	High Point
Janice McLean Bireline	Raleigh
*Charles Robert Browning	Asheville
†R. G. Harris	Asheboro
James Alvin Holland	Glenwood
†William McKinley Kahlbaum, Jr.	Elizabeth City
†Virgil George Kunde	Red Wing, Minn.
Christopher Richard McDonald ..	West End
James Hinton Sinclair	Rowland
Royce Lee Williams	Granite Quarry
Stephen Paxton Wolfe	Jamesville

†Honors; ‡High Honors.

*In Absentia

BACHELOR OF SCIENCE IN FURNITURE MANUFACTURING AND MANAGEMENT

James Clarence Crew	Morganton
†John Austin Edmondson	Gainesville, Ga.
Jimmie Richardson Hastings	Morganton
Robert Henry Kennedy	Wilkesboro
Jerry Pearson Massey	Statesville
James Shelton Moffitt, Jr.	High Point
James Kenneth Stone, Jr.	Hickory
Thomas Calvin Stout	High Point

BACHELOR OF SCIENCE IN GEOLOGICAL ENGINEERING

Henry Carson Norman	Robersonville
Dudley Carroll Rabb	Lenoir
Hood Lance Richardson	Monroe
James Dudley Simpson, III	Fayetteville

BACHELOR OF SCIENCE IN HEATING AND AIR CONDITIONING

Robert Edward Clarke	Morganton
William Alexander Floyd	Hickory
William Barry Long	Gastonia
Harry Lee Watson, III	Whiteville

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

William Maylon Batchelor, Jr.	Tarboro
†Lucius Hazletine Bracey, Jr.	South Hill, Va.
William Horace Bush, III	Charlotte
Robert Cecil Carlyle	Fayetteville
Mitcheal Lee Childress	Gibsonville
†James Richard Currie	Hickory
Lowry Alton Daniels, Jr.	Driver, Va.
Daniel Shaw Davis, Jr.	Monroe
John Kenneth Duncan	Kannapolis
†Ralph Goldson Edwards, Jr.	Salisbury
Edward Clark Farr	Charlotte
Alan Grant Feimster	Taylorsville
Edward Plummer Fitts	Littleton
Donald Ray Fountain	Wilmington
Ernest Washington Gamble, Jr.	Salisbury
Hoyt Milton Hackney, Jr.	Sanford
Augustus Steele Hall	Raleigh
George Howard Hammett	Concord
William Knowlton Harding, Jr.	Charlotte
†Andrew Jennings Harriss, Jr.	Wilmington
John Ramkrishna Jivatode	Raleigh
Howard Wayne Jones	Kannapolis
Charles Lee Jordan, III	Laurinburg
William Whitehead Kelly	Winston-Salem
Robert Dwayne Linder	Salisbury
Porter Lee McAteer	Gastonia
Roy Hoyt Martin, Jr.	Hendersonville
Bobby Lawrence Meadows	Durham

†Honors; ‡High Honors.

William Mettrey, Jr.	Raleigh
*Robert Lewis Poovey	Hickory
John Guerard Scott	Graham
Guy Otis Settlemyre, Jr.	Drexel
Harry Arnold Sitton	Asheville
William Edgar Thornton, Jr.	Ahoskie
Edgar Paul Tosto	Sea Level
Ronald Edward Tuttle	Winston-Salem
William Earl Walker	Rocky Mount
James Edward Durham Whisnant	Morganton
George Gerald Williams	Asheville
Thomas John Wood	Raeford
Nelson Worsham Young	Reidsville

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

Dwight Steele Adkins	Hickory
Vance Alton Apple	Gibsonville
Samuel Millard Baggett	Sanford
†Jesse Otho Barbour, Jr.	Morganton
James Haywood Bass	Louisburg
Coy Medlin Batten	Kenly
†Hoyt Sturdivant Beard	Pittsboro
Robert Vann Blankenship	Charlotte
James Fredrick Bodie	Thomasville
Neil Oren Bolick	Hickory
Roger Eugene Bolick	Hickory
William Henry Booth, Jr.	Morganton
James Arthur Brame	Greensboro
†Gene Autry Britton	Jackson
Gary Harvey Bullis	Burlington
Baxter Daniel Burke	Siler City
Venable Babcock Burwell	Oxford
Robert Franklin Busic	Sparta
John McClung Carringer	Andrews
Walter David Cheek	Burlington
†Harry Arthur Cikanek, Jr.	Lenoir
Frank Thomas Clifton, Jr.	Mount Olive
Wallace Reid Conway	Greenville
Richard Owen Cope	Gastonia
Roddie Lee Crosby, Jr.	Raleigh
Roy David Curtis	Ramseur
Benjamin Theodore DeArmon	Charlotte
Edward Stuart Elam	Charlotte
Philip Randall Ellis	Clarkton
Larry Michael Faust	Winston-Salem
Rufus Talmage Fish, Jr.	Wilson
James Crowell Fisher, Jr.	Mount Pleasant
Benjamin Alton Gardner, Jr.	Ayden
Charles Philemon Garner	Wilmington
†George Walker Garrison, Jr.	Statesville
†James Acra Hackney, III	Washington
William Abraham Haddock	Jacksonville
Robert Luther Hager	Alexis
†John Hoyt Hardee	Loris, S. C.
†Dennis Irvin Harris, Jr.	Greenville
†R. G. Harris	Asheboro
Donald Lee Roy Hartley	Graham
Gene Wesley Hartsell	Charlotte

†Honors; ‡High Honors.

*In Absentia

Hal Craig Hartsell, Jr.	Concord
William Carroll Hill	Kinston
Grear Shirlock Hite	Charlotte
Louis Curtis Hodges	Dobson
Earl Thomas Holt	Salisbury
†Alvin Dillard Hooper	Tuckasegee
†Gene Allen Hoots	Winston-Salem
Herbert Ronald Hoover	Concord
Richard Gary Hubbard	Hildebran
John Wesley Huffman	Charlotte
Robert Hughes Hunt	Newton
Harold Dean Hunter	Weaverville
†James Harris Johnson	Durham
†Truman Lewis King, Jr.	Raleigh
Dennis Frank Leffler	Charlotte
Jimmy Oscar Love	Concord
Tillman Desawyer McC Carson, Jr.	Hendersonville
Darwin Hilary McCombs	Kannapolis
Nathan Henry McLamb	Clinton
Arthur Frazier McLean, Jr.	Florence, S. C.
David Scott McRae	Ellerbe
†Truxton King Mann, Jr.	New Bern
†Ransom Jackson Massengill, Jr.	Durham
Eric Spencer Oertel	Wiesbaden, Germany
William Lewis O'Quinn	Lumberton
John Allen Oxford	Hudson
William Winship Page	Henderson
David Lee Parker	Winston-Salem
†David Jackson Payne	Greensboro
†Lee Homer Person, Jr.	Raleigh
Billy Shelton Peterson	Delco
Howell Liveous Peterson	Garland
Claud Ervin Pugh	Asheboro
Robert Hillman Rawlings	North Providence, R. I.
Harold Joseph Ray	Burnsville
David Ruffin Redwine	Lexington
Donald Gray Reich	Burlington
Robert Anthony Robertson	Winston-Salem
Lloyd Lee Rogers	Boone
†William Rhea Sessoms, Jr.	Colerain
Robert Taylor Sherrill	Mooreville
†Ned Alan Sigmon	Hickory
Eric Errol Smart	Forest City
Drayton Lendell Smith, Jr.	Albemarle
Milton Stover Starnes	Hudson
Cecil Emile Andre Stearns	Raleigh
†Charles Arnold Stone, III	Kernersville
Thomas Francis Stradley, Jr.	Pittsburgh, Penna.
Eric Werner Swanson	Raleigh
Robert Roy Swanson	Gastonia
†James Anthony Taylor	Tarboro
Hampton Long Teague	Chapel Hill
†Kenneth Mack Thornes	Rocky Mount
James Franklin Torrence	Salisbury
George Azore Tucker	Concord
William Carr Tucker	Townsville
Glen Edward Walker	Morganton
Donald Graham Wall	Winston-Salem
Harry Lee Watson, III	Whiteville

†Honors; ‡High Honors.

Lawrence Edward Welch	Charlotte
James Edward Durham Whisnant	Morganton
James Laban Wilson	Belmont
Roscoe Lee Wrenn, Jr.	Roanoke Rapids

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING, AERONAUTICAL OPTION

John Charles Davis	Greensboro
†William Lawrence Dennis	Randleman
†Joseph Donald Doub	Winston-Salem
William Freddy Fulcher	Rocky Mount
†Maxwell Walker Goode	Boiling Springs
Ray Oliver Hedden	Bryson City
†Phil Thomas McCuiston, Jr.	Kernersville
Samuel Lewis Porter, Jr.	Sparta
†James Robert Reynolds	Boone
Howard Daniel Warren	Asheville
Daniel Lee Whiteside	Asheville

BACHELOR OF SCIENCE IN METALLURGICAL ENGINEERING

James Harrison Arthur, Jr.	Mount Holly
Chandrakant Prabhudas Doshi	Calcutta, India
Ronald Bruce Felton	Rocky Mount
Edgar Neil Harbinson	Maiden
Michael Arlen Harley	Winston-Salem
Blake Palmer Hudson	Shelby
Stephen Stanley Koszewski, Jr.	Charlotte
†Walter Jackson Lackey, Jr.	Fallston
Wesley Stewart Perry	Raleigh
Thurman Howell Upchurch	Raleigh

BACHELOR OF SCIENCE IN NUCLEAR ENGINEERING

Samuel Millard Baggett	Sanford
†William Bailey, III	Danville, Va.
William Eugene Brannock	Reidsville
Wayne Michael Brittain	Morganton
William Joseph Bush	Minersville, Penna.
Silas Ted Christenbury	Harrisburg
Oren Boyd Cooke	Maiden
Joseph Spottswood Crowell	Enka
Kelly Frank Hawkins	Lafayette, La.
James Russell Himmelwright	Matawan, N. J.
†Michael Richard Kowalczyk	Clifton, N. J.
Jerry Gilbert Lackey	Charleston, S. C.
*Dale Ernest Larsen	Williston, N. D.
†William Stone Lassiter	Spring Hope
†Kermit Oliver Laughon, Jr.	Jefferson
Ira Paul Leggett, Jr.	Washington
James Vernon Mageean	Hampton, Va.
†Daniel William Miller	Salisbury
Thomas Mitchell Moore	Kannapolis
James Robert Moss	High Point

†Honors; ‡High Honors.

*In Absentia

Joseph Martin O'Neill	Ware Shoals, S. C.
†James Thornwell Spence, III	Greensboro
†Nelson Byrd Stall	Newport News, Va.
Charles Richard Vaughn	Mount Airy
Willis Kenneth Whichard, Jr.	Greenville

School of Forestry



BACHELOR OF SCIENCE IN FOREST MANAGEMENT

†Junius Ora Baker, Jr.	Raleigh
Allen Cecil Boyette	Goldsboro
Edwin Worthington Bradley, Jr.	Rockville Centre, N. Y.
Charles Stephen Briggs	Burnsville
Richard Bryon Brill	Urbanna, Va.
*William Blakely Buckley	Norris, Tenn.
Henry Carrington Cuninghame, Jr.	Winston-Salem
William Robert Dabney	South Amboy, N. J.
†Louis Welsh Eckstein, Jr.	Bryson City
Larry Clifton Edwards	Hamlet
Harold Boyd Freeman	Roanoke Rapids
Chandratil Kurian George	Kottayam, India
†Daniel Lawrence Grimsley	Acme
Hugh Thomas Gore	Tabor City
Clyde Mitchell Gurganus	Williamston
Thomas Lawson Harrill	Shelby
†*David Franklin Jolly	Norris, Tenn.
Worth Alexander Kendall	Wadesboro
Edward Herman Langston, Jr.	Raeford
Larry King Lawrence	Marion
Samuel Viers Mace	Street, Md.
James Lee Martin, Jr.	Mullins, S. C.
Alexander Ross Moore	Raleigh
Junius Benjamin Reavis	Fayetteville
Henry Earl Royce	San Angelo, Tex.
Howard John Scheurenbrand, Jr.	Lake Ronkonkoma, N. Y.
†Clayton Ernie Shelby, Jr.	Salisbury
Lloyd Butner Snider	Liberty
†Abder-Rahim Hamid Talli	Zerka, Jordan
Charles William Watson	Highlands
Jared Dunn Wolfe, IV	Springfield, Penna.

†Honors; ‡High Honors.

*In Absentia

BACHELOR OF SCIENCE IN PULP AND PAPER TECHNOLOGY

†Roy Glen Avera	Houston, Tex.
Charles Calvin Brown	Richmond, Va.
†Cecil Neal Carter	Savannah, Tenn.
Bobby Bernard Deaton	Morganton
Gilbert Giles Garner	Newport
Thomas Hinson	Bessemer City
Charles Thomas Holloman	Seaboard
Albert Rufus Kiser, Jr.	Winston-Salem
†Roger DeWitt Lambert	Andrews, S. C.
†Ted Alfred Owens	Harriman, Tenn.
William Harry Peele, Jr.	Plymouth
Edmund Clarence Puckhaber	Charleston, S. C.
Albert Jones Rhodes, Jr.	Brevard
Louis Howard Stone, Jr.	Charlotte
William Rea Sumner	High Point
Michael Weston Wilkinson	Statesville
Ronald Lee Younger	Lynchburg, Va.

BACHELOR OF SCIENCE IN WOOD PRODUCTS MERCHANDISING

Hugh Brotherton Pierce, Jr.	Plymouth
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BACHELOR OF SCIENCE IN WOOD TECHNOLOGY

Charles Raymond Allen	Goldsboro
Theodore Harris	Fayetteville
Philip Gene Hogan	Norman
Morris Len Jones	Burgaw

School of Physical Sciences and Applied Mathematics



BACHELOR OF SCIENCE IN APPLIED MATHEMATICS

Ralph Garland Abernathy	Gastonia
Bobby Gene Bennett	Glen Alpine
Mary Elizabeth Black	High Point
†Mitchell Detroy Brackett	Casar
John Broughton, III	Hertford
†Charlie Harrison Cooke	Lawndale
Richard Broadus Culler, Jr.	High Point
†Robert Dabney Davis	Winston-Salem
Edgar Milton Fields, Jr.	Hertford
Foad Fred Filsoof	Tehran, Iran

†Honors; ‡High Honors.

David Siew-Pun Fock	Singapore
†Peter Murray Gibson	Laurel Hill
†Reid Kent Gryder	Rockingham
†Jon Russell Howell	Lenoir
†Dan Hilliard Hoyle	Henderson
Douglass Ross Joyce	Raleigh
†William Patrick Kolodny	Charlotte
James Cleveland Leonard, III	Winston-Salem
George Edward Levings, III	Raleigh
William Olen Marks	Raleigh
†Samuel Calvin Matthews	Raleigh
James William Mauney	Lincolnton
†Lawrence Carlton Moore, Jr.	Atlanta, Ga.
†Ronald Lee Olive	Lumberton
†Richard Wayne Philbeck	Hickory
Frederick Clarence Radford	Kenly
Robert Bruce Redmon, Jr.	Asheville
†Horace Joel Sher	Durham
Robert Jones Smith	Asheville
†Grover Karl Warmbrod	Raleigh
Robert Bynum Willett	Greensboro

BACHELOR OF SCIENCE IN CHEMISTRY

†Margaret Louise Craig Johnson	Fuquay Springs
†Jane Ann Moses Wolfe	Jamesville

BACHELOR OF SCIENCE IN PHYSICS

†Donald Bainbridge Carter	Fayetteville
†Gus Perry Couchell	Charlotte
†David Richard Decker	Winston-Salem
†Edward James Dumas	Shelby
†Harold Eugene Eskridge	Shelby
†Eion MacGregor Faelten	Kinston
Charles William Greene	Canton
Jarrett Gordon Gregory	Reidsville
Thomas C. H. Harris	Durham
Jimmy Haun Hilbert	Durham
†Joseph Allen Huggins	Wilmington
†John Henry Isenhour, Jr.	Salisbury
Stella Joseph	Lima, Peru
†William Baxter Michael	Bostic
†Willis Mock, Jr.	Greensboro
†Edward Samuel Oberhofer	Winston-Salem
John David Puett	Morganton
†William Reid Waltz	Charlotte
Robert Eugene Wilson	Fallston

†Honors; ‡High Honors.

School of Textiles



BACHELOR OF SCIENCE IN TEXTILE CHEMISTRY

Roland Acra	Port-au-Prince, Haiti
Clayton Grant Asbury	Wilmington
Randall Lanier Brown	Greensboro
Joe Dan Gardner	Dallas
Ted Eugene Hager	Mount Holly
Jean Antoinette Hamilton	Fayetteville
Charles Edward Huffstetler	Mount Holly
Philip Norton Jacobs	Freeport, N. Y.
Allen Newberry James	Mount Pleasant
Steve Clifton James	Mayodan
Harold Reid Mann	Mebane
Ronald Russell Medders	Mount Holly
Jorge Rivadeneyra Farrera	Mexico City, Mexico
James Malachi Seago, III	Raleigh
Donald Reed Tickle	Mebane
Fredrick Eugene Wilson, Jr.	High Point

BACHELOR OF SCIENCE IN TEXTILE TECHNOLOGY

Alan Hershel Altman	Jersey City, N. J.
Clarence Leonard Bostian, Jr.	Salisbury
John Roger Briscoe	Mountain Lakes, N. J.
Otto Raven Brockmann, Jr.	Greensboro
*Gary Owensby Clarke	Shelby
Arnold Hugh Cohen	Brooklyn, N. Y.
Carl Benson Crotts	Trinity
*Dewey Daniel Go Dee	Manila, Philippines
Joseph Franklin Flynn	Chimney Rock
Jerry Carr Glover	Henderson
John Edgar Goforth	Rutherfordton
Stanley Bernard Goldberg	Fall River, Mass.
Kenneth Lee Hawn	Charlotte
Max Melrose Huntley	Rutherfordton
Gerald Lee Johnson	Albemarle
†Mariano Tan Lim	Manila, Philippines
Donald Cameron Livingston	Bryson City
†Charles David McMahon	Swannanoa
William Ogburn Morrison, Jr.	Burlington
John Lee Nash	Salisbury
Robert Mason Neely	Rutherfordton
David Robert Nelson	Andrews
Earl Jennings Phillips	St. Pauls
James Ashley Pierson	Laurinburg
†William Knight Poole	Charlotte

†Honors

*In Absentia

William David Randall	Salisbury
Herbert Gustav Rosenthal	Raleigh
Silas McDonald Rowland	Halifax
†John Russell Sherrill, Jr.	Kingsport, Tenn.
Lawrence Allen Silver	Holliswood, N. Y.
Frederick Norman Slosman	Asheville
William Franklin Stanley, Jr.	Kinston
John Franklin Stevens	Erwin
Lindell Gene Stoker	Albemarle
Glenn Benard Talbert	Albemarle
Leonard Kommel Tillman	North Woodmere, N. Y.

Professional Degrees

CHEMICAL ENGINEER

Roy William McGinnis, Jr. Morven

CIVIL ENGINEER, SANITARY OPTION

Julius Lemay Blackmon Four Oaks

CIVIL ENGINEER, STRUCTURAL OPTION

William Edward Smith Raleigh

CIVIL ENGINEER, TRANSPORTATION OPTION

Richard Joseph Bouchard Ogdensburg, N. Y.
Eugene Thomas Reynolds Franklinville

INDUSTRIAL ENGINEER

William Whitehead Kelly Winston-Salem

Master's Degrees



MASTER OF AGRICULTURAL EDUCATION

Vaden Bell Hairr Jamesville
*Robert Wilburn Long Cedar Grove

†Honors

*In Absentia

MASTER OF FORESTRY

Garland Ray Wells El Dorado, Ark.

MASTER OF OCCUPATIONAL INFORMATION AND GUIDANCE

Thomas Eugene Cook Pineville, W. Va.
Robert Lee Denny Spencer
Paul William Dieffenderfer Durham
Charles Lewis Hancy Raleigh
Robert Burnham Hawkins Raleigh

MASTER OF WOOD TECHNOLOGY

Robert Campbell Gilmore Raleigh

MASTER OF SCIENCE

Agricultural and Biological Chemistry

Thomas Marsh Ward Raleigh

Agricultural Economics

Ronald Gary Fletcher Ontario, Canada
*Ralph Austin Freund, Jr. Georgetown, Tex.
Joseph Carson Matthews, Jr. Raleigh
Shlomo Reutlinger New York, N. Y.

Agricultural Engineering

Clarence Elam Hood, Jr. Newton
William Fred McClure Raleigh

Animal Industry

Joe Gleaves Bradshaw Lebanon, Tenn.
Audie Dee Elrod McMinnsville, Tenn.

Applied Mathematics

Henry Foust Atwater Burlington
Robert Edgar Dalton Falls Church, Va.
John Edward Fletcher Boone
Philip Monroe Hendricks, Jr. Lexington
Douglas Eugene Lingle Faith
Joe Wilson Reece Boonville
Fred Toney, Jr. Mooresboro
Stevie Mike Yionoulis Wilson

Applied Physics

Dan Hightower Eastland, Tex.

Botany

Jo Ann Thomas Croom Spruce Pine

Civil Engineering

Halbert Felton Brinson New Bern
Everett Pierce Loppacker, Jr. Nutley, N. J.
Frederick Lane Moreadith Raleigh
Marion Ronald Poole Thomasville
Vassilios John Staikidis Raleigh
*Kenneth John Tharp Oskaloosa, Iowa
Jay Rodney Walton Cary

*In Absentia

Electrical Engineering

*Ching-Chao Cho Kwangtung, China

Entomology

Lee Scott Self Atlanta, Ga.

Experimental Statistics

*Seymour Bush Raleigh
Triloke Khosla Bombay, India

Field Crops

Eduardo Casas Mexico City, Mex.
John Garland Clapp, Jr. Greensboro
Charles Edwin Cress Salisbury
August Albert DeHertogh Lemont, Ill.
Robert Otto Kuehl Schleswig, Iowa

Forestry

*Raphael John Steinhoff La Crosse, Wis.

Genetics

Paul Davis Legg Clintonville, W. Va.

Horticulture

Theadore George Richardson Climax

Industrial Engineering

*Raymond Lee Collins Greensboro

Mechanical Engineering

Franklin Delano Hart Angier
William Norman Sharpe, Jr. Chapel Hill
Allie Maitland Smith Tabor City

Nuclear Engineering

*Francis Carter Cobb St. Mary's City, Md.
Donald Eugene Sells Monroe, Mich.

Occupational Information and Guidance

*Jack Joe Carmichael Wilson
Samuel Austin Plyler Salisbury
Norwood Lewis Williams Clayton

Textile Technology

Maqbool Ilahi Shaikh Lahore, W. Pakistan
Floyd Blue Sweet, Jr. Laurinburg

Zoology

James Franklin Parnell Timmons ville, S. C.
*Renford Oneal Smitherman Randolph, Ala.

*In Absentia

Doctor of Philosophy Degrees

- Dissertation: John William Bishir, Experimental Statistics
Two problems in the theory of stochastic branching processes
- Dissertation: Julian Wright Crews, Field Crops
Field plot technique studies with flue-cured tobacco
- Dissertation: Steve A. Eberhart, Genetics
Epistatic and other genetic variances in two varieties of corn (*Zea mays* L.)
- Dissertation: John Lovell Hall, Botany
Studies on the conversion of nicotine to nornicotine
- Dissertation: Leigh Hugh Hammond, Agricultural Economics
An evaluation of the opportunity for investment in sweet potato canning plants in North Carolina
- Dissertation: Mostafa Kamel Hathout, Animal Industry
Effect of drying temperatures on chemical composition and digestibility of alfalfa
- Dissertation: William Hugh Johnson, Agricultural Engineering
Steady-state thermodynamics in the analysis of the curing process for bright-leaf tobacco
- Dissertation: Thomas Rhinehart Konsler, Experimental Statistics
A quantitative analysis of the growth and regrowth of a forage crop
- Dissertation: *Eugene H. Lehman, Jr., Experimental Statistics
Estimation of the scale parameter in the Weibull distribution using samples censored by time and by number of failures
- Dissertation: Russell Jay Lewis, Soils
Some aspects of the chemistry of radiostrontium in soils
- Dissertation: *Peter Joseph Loesch, Field Crops
Inheritance studies of X-ray mutants and the effect of the mutated background genotype on mutant expression in *Arachis hypogaea* L.
- Dissertation: Norman Edward McGlohon, Plant Pathology
Investigations of plant-parasitic nematodes associated with forage crops in North Carolina
- Dissertation: *James Marcus McGuire, Plant Pathology
Etiology and Epiphytology of the collar rot disease of peanuts
- Dissertation: Herbert Verner Marsh, Jr., Botany
Investigations of the role of iron in chlorophyll metabolism
- Dissertation: Alfred Leroy Mowery, Jr., Physics
The application of the methods of function space to reactor analysis
- Dissertation: Lawrence Alan Nelson, Soils
Evaluation of properties and yield potentials of some important Atlantic coastal plain soils

*In Absentia

- Aulsey Thomas Olive, Entomology
Dissertation: Composite-feeding aphids of the genus *Macrosiphum* and two closely related genera in North Carolina (Homoptera, aphidae) with a host-plant list of *Macrosiphum* and related genera of the Eastern United States
- William Lanier Rivenbark, Soils
Dissertation: The rates and mechanisms of manganese retention and release in soils
- *Achilles George Sicas, Field Crops
Dissertation: Statistical analysis of chromosome pairing in interspecific hybrids of *Nicotiana*
- Roy Glendon Stout, Agricultural Economics
Dissertation: A study of hog movements and inter-area price relations in the Southeast
- Fredrick Louis Thurstone, Electrical Engineering
Dissertation: Fetal electrocardiography and heart rate determination
- *Richard Anton Wiese, Soils
Dissertation: Soil properties and chemical methods relating to the availability of potassium in selected Southeastern Piedmont and Mountain soils
- James Stanley Williams, Experimental Statistics
Dissertation: An evaluation of the worth of some selection indices
- Arch Douglas Worsham, Field Crops
Dissertation: Germination of *Striga asiatica* (L.) Kuntze (Witchweed) seed and studies on the chemical nature of the germination stimulant
- *Charles Wesley Young, Animal Industry
Dissertation: Genetic variation and covariation between different measures of growth and postnatal maternal performance in mice
- Pao-lo Yu, Genetics
Dissertation: Random inbred lines of corn and their performances in hybrid combinations at different levels of inbreeding
- Ramzy Mohamed Zaki, Experimental Statistics
Dissertation: Applications of linear programming techniques to some problems of production planning over time

*In Absentia

DEGREES CONFERRED

July 21, 1960

August 26, 1960

January 28, 1961

School of Agriculture



BACHELOR OF SCIENCE

Agricultural Economics

John Thomas Coley, III (August, 1960) Red Oak
Hubbard Morris Sutton (August, 1960) Newton Grove
Pieter Jan Westerbeek (August, 1960) Pinetown

Agricultural Engineering

†Roy Clifton Holder (January, 1961) Liberty
Stanley Ross King (January, 1961) Littleton

Animal Industry

Charles Arthur Gantt (January, 1961) Durham
†Michael James House (January, 1961) Bethel
Norwood Potter (January, 1961) Clinton

Dairy Manufacturing

Dale Bryce Hedrick (July, 1960) Lexington

Field Crops

Joe Durwood Johnson (January, 1961) Four Oaks
James Alexander Wright (January, 1961) Marion

Mechanized Agriculture

Edward James Johnson (January, 1961) Wallace

†Honors

Poultry Science

Max Eugene Long (July, 1960)	Shelby
Ben Finch Massey (January, 1961)	Zebulon

Zoology

Franklin Thurman Edwards (July, 1960)	Raleigh
Dennis Franklin Holland (January, 1961)	McBee, S. C.
Johnie Darrell Thomas (January, 1961)	Sanford

School of Education



BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION

Harold Luther Atkins (January, 1961)	Kernersville
John Kelly Baldwin, III (January, 1961)	Abbottsburg
Worth Wingate Collier (January, 1961)	Wade
John Ray Davis (January, 1961)	Vass
James Carroll Edmundson, Jr. (January, 1961)	Pikeville
Thomas Gerald Edwards (August, 1960)	Middlesex
†Thomas Jackson Emerson (January, 1961)	Siler City
Ronald Holland English (January, 1961)	Willard
Parks Cadman Fields (January, 1961)	Pleasant Garden
Winston Earle Frazier (January, 1961)	Rolesville
Kenneth Ray Futreal (January, 1961)	Rocky Point
Aubrey Leonard Gay (January, 1961)	Zebulon
Proctor Locklear, Jr. (January, 1961)	Pembroke
Ronald Dean Moss (January, 1961)	Cullowhee
George Donald O'Quinn (January, 1961)	Mamers

BACHELOR OF SCIENCE IN INDUSTRIAL ARTS

Donald George Bassett (January, 1961)	Shawinigan, Quebec, Canada
Arthur Kenneth Beck (January, 1961)	Salisbury
Robert Hampton Blackwood (January, 1961)	Chapel Hill
Raymond Emery Briggs (August, 1960)	Raleigh
Lonnie Bertis Coulter, Jr. (July, 1960)	Salisbury
†Norman Ray Fisher (January, 1961)	Conover
Charles Willard Hannah (July, 1960)	Clyde
William Rainey Hawkins, Jr. (August, 1960)	Durham
William Gladstone Henson, Jr. (January, 1961)	Gastonia
Lowell Thomas Hudson (January, 1961)	Waynesville
Gerald Franklin Jackson (January, 1961)	Morehead City
Clifton Patrick Jones (August, 1960)	Kinston
Robert Barlow Lee (January, 1961)	Laurinburg
Donald Scott Long (July, 1960)	Raleigh

†Honors

William Robert McClain (January, 1961)	Monaca, Penna.
Joseph John Macca (January, 1961)	Fairport, N. Y.
William Carl Mason (August, 1960)	Canton
Thomas William Merrill (January, 1961)	Penrose
Murdoc Burke Murchison (January, 1961)	Raleigh
Elbert Clay Newton (January, 1961)	Clayton
James Lee O'Connell (January, 1961)	Sanford
Leonard Randolph Orders, Jr. (July, 1960)	Asheville
Ferebee Land Patterson (July, 1960)	Raleigh
Arthur Graham Phifer (January, 1961)	Shelby
Mark Raney, Jr. (July, 1960)	Jacksonville
Philip Ogden Redwine (July, 1960)	Badin
†Paul Hugh Rice, Jr. (January, 1961)	Sunbury
Robert Isley Robeson (January, 1961)	Hickory
George Albert Rudisill (July, 1960)	Charlotte
David Jenkins Scott (January, 1961)	Warrenton
Jimmie Rupert Wilson (January, 1961)	Hendersonville
Stough Alexander Wray, Jr. (January, 1961)	Shelby

BACHELOR OF SCIENCE IN MATHEMATICS EDUCATION

Larry Escar Brady (January, 1961)	Statesville
Thomas Watkins Carrington, Jr. (January, 1961)	Oxford
William George Graham (July, 1960)	Enfield
Bobby Odell Heath (January, 1961)	Wadc
John Paul Jones (January, 1961)	Henderson
Harold Lloyd Mask (January, 1961)	Marion
James Robert Moser (August, 1960)	Greensboro
Billy Franklin Payne (January, 1961)	Walnut
Thomas Ferrell Roberts (August, 1960)	Asheville
George Dewey Self, Jr. (July, 1960)	Leaksville
Clarence Fowler Shipp, Jr. (January, 1961)	Clinton
Frederick Guy Walker, Jr. (January, 1961)	Albemarle
Claud Edwin White (July, 1960)	Boiling Springs
Jack Edward Wilkie (August, 1960)	Valdese
Percy William Wright (January, 1961)	Marion

BACHELOR OF SCIENCE IN RECREATION AND PARK ADMINISTRATION

Thomas Odell Barefoot (January, 1961)	Dunn
James Harvey Creekmore, Jr. (January, 1961)	Wilson
Theo O'Neal Easom (January, 1961)	Wilmington
†Claude Herman Farrell, III (January, 1961)	Raleigh
Donald Michael Gallagher (August, 1960)	Binghampton, N. Y.
John Edgar Harriger (January, 1961)	Falls Creek, Penna.
Charles Hal Harrington, V (January, 1961)	Saint Pauls
Bernard John Latusick (January, 1961)	McKees Rocks, Penna.
Kelly Minyard (August, 1960)	Reidsville
Lindsey Adolph Moore (August, 1960)	Falkland
William Bryan Peed (August, 1960)	Wilson
Joe Melvin Shockley, Jr. (January, 1961)	Laurens, S. C.
William Ray Styons (January, 1961)	Plymouth
Winfield Scott Swindell, Jr. (July, 1960)	Raleigh

BACHELOR OF SCIENCE IN SCIENCE EDUCATION

Vincent Jerome Bellis, Jr. (August, 1960)	Black Mountain
Robert Elmore McKeithan (January, 1961)	Clarkton
Harold August Olsen (August, 1960)	Wilmington
Robert Bruce Teasley (January, 1961)	Knoxville, Tenn.
†Julian Cooper Wingfield, Jr. (January, 1961)	Eustis, Fla.

†Honors

School of Engineering



BACHELOR OF SCIENCE IN CERAMIC ENGINEERING

†Dong Myung Choi (January, 1961)	.....	Taegu, Korea
William Kemp Culbreth, Jr. (August, 1960)	.....	Lumberton
Homer Jerry Godfrey (January, 1961)	.....	Charlotte

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

John Washington Brown (July, 1960)	.....	Huntersville
William Darrell Bulla, Jr. (July, 1960)	.....	High Point
Dann Slayden Cross (January, 1961)	.....	Waynesville
William Francis Drinkard, Jr. (January, 1961)	.....	Charlotte
John Alan McGahey (January, 1961)	.....	High Point
Bobby Warren Tuttle (July, 1960)	.....	Raleigh

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Wayne Crowell Bridges (July 1960)	.....	Rutherfordton
Harold Donald Colston (July, 1960)	.....	Nashville
James Foster Cox (January, 1961)	.....	Goldsboro
James Mitchell Dawkins (January, 1961)	.....	Greensboro
James Bliss Harward (July, 1960)	.....	Wadesboro
John Dempsey Hopson (August, 1960)	.....	Burnsville
Oni Pinckney Houston, Jr. (January, 1961)	.....	Mooreville
Tommy Ray Plemmons (January, 1961)	.....	Asheville
†Robert Eugene Pless (January, 1961)	.....	Canton
Paul Laurence Propst (January, 1961)	.....	Southern Pines
Horace Eugene Williams (July, 1960)	.....	Henderson
James Russell Zook (January, 1961)	.....	Lenoir

BACHELOR OF SCIENCE IN CIVIL ENGINEERING, CONSTRUCTION OPTION

James Albert Bridger, Jr. (August, 1960)	.....	Bladenboro
Ovid Pendleton Cassels, Jr. (July, 1960)	.....	Charlotte
Vernie Richard Coston (August, 1960)	.....	Jacksonville
James Spencer Lewis, III (January, 1961)	.....	Goldsboro
Owen Keith Tharrington, Jr. (July, 1960)	.....	Henderson

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

William Hartwell Bass, Jr. (August, 1960)	.....	Raleigh
Aubrey Don Beaver (January, 1961)	.....	Charlotte
Dan Hathaway Boone (July, 1960)	.....	Rocky Mount
George David Broyhill, Jr. (January, 1961)	.....	Mooreville
Charles Norman Davenport, III (July, 1960)	.....	Creswell
Carsie K. Denning (August, 1960)	.....	Coats
Jack Dempsey Hinson (January, 1961)	.....	Fair Bluff
Jack Craig Kennedy (July, 1960)	.....	Thomasville

†Honors

Ralph Butner Leach (August, 1960)	Aberdeen
Donald B. McKinney (July, 1960)	Reidsville
Henry Lynn Newton (July, 1960)	Wilson
Billy Adams Prince (July, 1960)	Fayetteville
Everett Alney Robinson, Jr. (July, 1960)	Mars Hill
Carl Gladford Ruff, Jr. (August, 1960)	Mill Spring
Donald Bruce Searcy (January, 1961)	Mill Spring
Michael Donovan Sutton (January, 1961)	Kinston

BACHELOR OF SCIENCE IN ENGINEERING MATHEMATICS

John Henry Bitting, Jr. (August, 1960)	Charlotte
Stuart Randall LeCroy (August, 1960)	Rocky Mount
Thomas Henry Lyon (January, 1961)	Durham
† Thomas Blue McCaskill (August, 1960)	Carthage
Robert Eugene Martin (August, 1960)	Hildebran
Charles Herbert Miller (July, 1960)	Raleigh
† John Fritz Richter (August, 1960)	Philadelphia, Penna.
Robert Lawrence Stevens (January, 1961)	Winston-Salem
† Keppel Duane Wait (August, 1960)	Asheville
Walter Hoyle Webb (August, 1960)	Shelby

BACHELOR OF SCIENCE IN ENGINEERING PHYSICS

Robert Christopher Williams, III (August, 1960)	Concord
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BACHELOR OF SCIENCE IN GEOLOGICAL ENGINEERING

† Alton Braxton Crumpler (July, 1960)	Goldsboro
Roy Leonard Harris, Sr. (January, 1961)	Robbins
George William Hartzoge (January, 1961)	Hickory
† Vester Jeff May (August, 1960)	Andrews

BACHELOR OF SCIENCE IN HEATING AND AIR CONDITIONING

Lanny Ravarn Moore (July, 1960)	Greensboro
George Francis O'Brien, Jr. (August, 1960)	Charlotte

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

William Robert Guffey (August, 1960)	Greensboro
Jaral Intarangsi (August, 1960)	Chiangmai, Thailand
George Nicholas John Sideris (January, 1961)	Greenville

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

John Franklin Carver (July, 1960)	Suffolk, Va.
Clyde Wilson Davis, Jr. (July, 1960)	Pantego
William Martin Dellinger (July, 1960)	Charlotte
Leonard Melvin Galati (August, 1960)	Elizabeth, N. J.
William Edwin Gilliam (August, 1960)	Graham
George Wayne Hallman, Jr. (July 1960)	Charlotte
Tasso Haritos (January, 1961)	Hackensack, N. J.
Hazel Von Stokes (January, 1961)	Charlotte
Edward Gleaton Strickland (January, 1961)	Goldsboro
† Larry Joe Taylor (July, 1960)	Denton
Joseph Terence Weeks (July, 1960)	Tarboro
Richard Sidney Wheless (July, 1960)	Wadesboro

†Honors

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING, AERONAUTICAL OPTION

†Nick Duncan Foster (July, 1960)	Wilkesboro
Robert Michael George (July, 1960)	Greensboro
Amos Dalton Hardee (January, 1961)	Greenville
Thomas Lee Hewitt (August, 1960)	Newton
†Lewis Ray Kirchdorfer (August, 1960)	Roseboro
James William Prim, III (July, 1960)	Richmond, Virginia
Glenn Oscar Reynolds (July, 1960)	Lincolnton
Robert Rosario Rinaldi (January, 1961)	Fayetteville
William Young Roberson (January, 1961)	Smithfield
William Earl Ross (July, 1960)	Moores Chapel
John Lincoln Shipley (July, 1960)	Williamston
Raymond Harley Walker, Jr. (July, 1960)	Sparta

BACHELOR OF SCIENCE IN METALLURGICAL ENGINEERING

Ronald Keith Bridgers (January, 1961)	Wilson
Robert Bond Fitts (August, 1960)	Asheville
Mohamed Rida Nassar (August, 1960)	Aleppo, Syria
John William Troutman (July, 1960)	Statesville
Martin Luther Tyson, Jr. (August, 1960)	Raleigh
Gerald McLain White (August, 1960)	Charlotte

BACHELOR OF SCIENCE IN NUCLEAR ENGINEERING

†George Raymond Barber (July, 1960)	Newport News, Va.
William Howard Brickhouse (January, 1961)	Raleigh
Rodney Wilson Carroll (January, 1961)	Newport News, Va.
John Michael Goodman (July, 1960)	Raleigh
†J. D. Greene (January, 1961)	Rockingham
‡Philip Edward Hamrick (January, 1961)	Boiling Springs
Vernon Lafayette Harris (August, 1960)	Tuscaloosa, Ala.
Larry Elmo Klutz (January, 1961)	Boone
Robert Hill Myers (January, 1961)	Piqua, Ohio
Willis Melvin Parker (January, 1961)	Four Oaks
Richard Gregory Pons (January, 1961)	Ft. Eustis, Va.
Leo Rhem Scott (January, 1961)	New Bern
Charles Douglas Simpson (August, 1960)	Albemarle
Jerrell Maurice Turner (January, 1961)	Laurinburg
†Jimmie Jack Wortman (August, 1960)	Morganton

†Honors; ‡High Honors.

School of Forestry



BACHELOR OF SCIENCE IN FOREST MANAGEMENT

William Roy Ball (January, 1961)	Burgaw
†Donald Davis Blizzard (January, 1961)	Richlands
George Lynn Gaines (January, 1961)	Fayetteville
Kenneth Franklin Jeffries (January, 1961)	Corinth
Herbie Martin Johnson, Jr. (January, 1961)	Crossnore
†Robert Duncan MacDonald (January, 1961)	Jacksboro, Tenn.
John Patterson McPherson (January, 1961)	East Rockingham
Robert Wayne Miller (January, 1961)	Milford, Penna.
Lyle Archibald Nichols (January, 1961)	Wellsboro, Penna.
Henry Wesley Precythe (August, 1960)	Faison
Clyde Crosby Rice (August, 1960)	Asheville
James Holt Smith (January, 1961)	Lenoir
Paul Wesley Sykes, Jr. (January, 1961)	Norfolk, Va.
George Sprunt Tyson (January, 1961)	Fayetteville
John Edward Waters (January, 1961)	Stilwell, Okla.
Clifton Lawrence Wilson (August, 1960)	Lenoir

BACHELOR OF SCIENCE IN PULP AND PAPER TECHNOLOGY

Philip Parker Holland (July, 1960)	Franklin
Robert Luther Smathers (August, 1960)	Candler
Cheh-Jen Su (January, 1961)	Taipei, Taiwan, China

BACHELOR OF SCIENCE IN WOOD PRODUCTS MERCHANDISING

Richard Clyde O'Dowd (July, 1960)	Raleigh
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BACHELOR OF SCIENCE IN WOOD TECHNOLOGY

Edgar Allen Wilder (August, 1960)	Newport, Tenn.
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†Honors

School of Physical Sciences and Applied Mathematics



BACHELOR OF SCIENCE IN APPLIED MATHEMATICS

John Thomas Edwards, Jr. (January, 1961)	Spring Hope
Harrison Alexander Giles, Jr. (January, 1961)	Roanoke Rapids
†Donald Eugene Rink (January, 1961)	Salisbury
James Floyd Turner, Jr. (January, 1961)	Wadesboro

BACHELOR OF SCIENCE IN PHYSICS

‡Philip Stephen Jackson (January, 1961)	Pittsboro
‡John Walter McRary, III (January, 1961)	Asheville
‡Gary Alan Massel (January, 1961)	Greensboro

School of Textiles



BACHELOR OF SCIENCE IN TEXTILE CHEMISTRY

Yalcin Kermen (July, 1960)	Istanbul, Turkey
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BACHELOR OF SCIENCE IN TEXTILE TECHNOLOGY

George Tan Ang (July, 1960)	Manila, Philippines
William Spurgeon Ayscue (July, 1960)	Henderson
William Stephen Ball (January, 1961)	Henderson
Benjamin Forrest Beasley, Jr. (July, 1960)	Raleigh
Henry Kimbrough Brannon, Jr. (January, 1961)	Greensboro
Boris Brodsky (July, 1960)	Lima, Peru
Larry Tom Costner (January, 1961)	Casar
Olin Kent Crouch (August, 1960)	Charleston, W. Va.
James Edward Crutchfield (January, 1961)	Graham
Martin Hilsman Dodenhoff (January, 1961)	Greenville, S. C.
Lloyd Verner Edmonds (January, 1961)	Roanoke Rapids
†Joseph Flosman (January, 1961)	Hamilton, Canada
Charles Ray Gardner (July, 1960)	Greenville
Naim Hakimbaba (January, 1961)	Teheran, Iran
Hugh Gene Harrelson, Jr. (January, 1961)	Lexington

†Honors; ‡High Honors.

James Alvin Harris, Jr. (January, 1961)	Charlotte
William Hicks Hummel (August, 1960)	Durham
Charles Eugene Hutchens (August, 1960)	Sanford
Donald Eugene Inge (January, 1961)	Weldon
Gene Erwin Inman (January, 1961)	Fairmont
Herbert Spencer Johnson, Jr. (August, 1960)	Greensboro
Rives Brinn Kimrey, Jr. (January, 1961)	Charlotte
Thomas Carl Lind (January, 1961)	Marion
Raymond William Morgan (July, 1960)	Salisbury
John Franklin Nixon (January, 1961)	Cramerton
Larry Stedman O'Connell (January, 1961)	Sanford
Roy Lee Overton (August, 1960)	Louisburg
Bobby Alton Perry (January, 1961)	Raleigh
†Carlos Gustavo Platschek (January, 1961)	Montevideo, Uruguay
Lanny Reese Rayfield (January, 1961)	Cherryville
Charles Eugene Rickell (January, 1961)	Frederick, Md.
Daniel Guy Rowe, III (January, 1961)	Hickory
Charles Javan Russell (January, 1961)	Troy
Donald Craig Schmucker (July, 1960)	Bryn Athyn, Penna.
Mitchel Wayne Sellers (January, 1961)	Rockingham
Spencer Nelson Shaps (January, 1961)	Brooklyn, N. Y.
Iverson Richard Smith (January, 1961)	Newton
Larry Holmes Taylor (January, 1961)	Marion
Worth Bagley Thomasson, Jr. (January, 1961)	Lexington
Roy Albert Walden (July, 1960)	Guatemala City, Guatemala
‡William Carl Wilton (August, 1960)	Hamilton, Canada
Owen Davis Wright, Jr. (January, 1961)	Henderson
Larry Monroe Yow (January, 1961)	New London

Master's Degrees



MASTER OF AGRICULTURAL EDUCATION

Joseph Ray Clary (July, 1960)	Shelby
Charles Ware Fortune (July, 1960)	Forest City
Earl Eugene Gray (January, 1961)	Angier
Parran Waldo Hawkins (August, 1960)	Roxboro
Nelson Earl Helms (July, 1960)	Monroe
Edward Earl Langston (January, 1961)	Kenly
John Levi Perkinson (August, 1960)	Rolesville
George Herman Porter (July, 1960)	Goldsboro

MASTER OF AGRICULTURE

James Albert Evans (July, 1960)	Wilson
Arwooth NaLampang (January, 1961)	Lampang, Thailand

†Honors; ‡High Honors.

MASTER OF ANIMAL INDUSTRY

Joseph Raymond Woodard (January, 1961) Raleigh

MASTER OF INDUSTRIAL ARTS

Parker Russell Johnson, Jr. (August, 1960) Lynnhaven, Va.

MASTER OF INDUSTRIAL EDUCATION

D. Leighton Stanley (January, 1961) Gastonia

MASTER OF OCCUPATIONAL INFORMATION AND GUIDANCE

William Gail Cross (January, 1961) Gainesville, Fla.

MASTER OF SCIENCE

Agricultural and Biological Chemistry

Roland Jennings Bryan, Jr. (August, 1960) Raleigh

Agricultural Engineering

Rupert William Watkins (January, 1961) Clayton

Animal Industry

William Harold Justice (August, 1960) Cary

Ervin Thaddeus Kornegay (August, 1960) Albertson

Robert Lee McGuire (August, 1960) Brevard

Frank Dorrance Sargent (August, 1960) Concord, N. H.

Arthur Milton Spining, III (August, 1960) Nashville, Tenn.

David Griffin Spruill (August, 1960) Columbia

Chemical Engineering

Sureshkumar Bapalal Doshi (January, 1961) Bombay, India

Aurelio Martinez-Leon (January, 1961) Caguas, Puerto Rico

Civil Engineering

Louis Samuel Agnew, Jr. (August, 1960) Wilson

Man-Pan Hui (August, 1960) Hong Kong

Constantin Vasil Parathiras (August, 1960) Athens, Greece

J. C. Smith (August, 1960) Hudson

Electrical Engineering

Robert Wu-Lin Chang (July, 1960) Taipei, China

James Wilmer Pierce Gregory, Jr. (January, 1961) Asheville

Hassan A. N. Oteifa (August, 1960) Alexandria, Egypt

Merriman Staton Sholar (January, 1961) Charlotte

Jing-Jue Young (January, 1961) Chekiang, China

Department of Entomology

Everett Royal Mitchell (January, 1961) Itasca, Texas

Experimental Statistics

Gangaram Kotumal Kripalani (August, 1960) New Delhi, India

Ruth Melba Portman (January, 1961) Seattle, Wash.

Narasri Vaivanijkul (January, 1961) Bangkok, Thailand

Department of Field Crops

William Kerr Collins (January, 1961) _____ Raleigh
Carlos Julio Pinilla (January, 1961) _____ Medellin, Colombia

Forestry

Carl Leaton Lane (January, 1961) _____ Clemson, S. C.
William Fredrick Lehmann (January, 1961) _____ Ephrata, Wash.
Robert Lee McElwee (August, 1960) _____ Cary
Lloyd Wesley Swift, Jr. (January, 1961) _____ Franklin
Charles Donald Webb (January, 1961) _____ Clearwater, Fla.

Genetics

William Avera Compton (January, 1961) _____ Clayton
Helene Zinka Lee (January, 1961) _____ Raleigh
Clifford Robert Parks (January, 1961) _____ Elmira, N. Y.
Wilfredo Sergio Salhuana (August, 1960) _____ Lima, Peru
Leroy Charles Saylor (August, 1960) _____ Cedar Rapids, Iowa

Industrial Arts

Julian Robert Rawls, Jr. (January, 1961) _____ Oak City

Mechanical Engineering

Edward Dewitt Gurley (July, 1960) _____ Bostic
Carl Sidney Rudisill (January, 1961) _____ Lincolnton

Mineral Industries

John Joseph DuPlessis (January, 1961) _____ Raleigh
Anna Clyde Fraker (January, 1961) _____ Greeneville, Tenn.
Dana Bradford Grannell (January, 1961) _____ Lancaster, Penna.

Nuclear Engineering

James William Byrd (January, 1961) _____ Mount Olive
Lawrence Albright Mink (January, 1961) _____ Winston-Salem
Robert Henry Shultz, Jr. (January, 1961) _____ Ellerson, Va.
Dean Allison Waters (January, 1961) _____ Little Silver, N. J.

Occupational Information and Guidance

Michael Edward Alvarado (August, 1960) _____ Tacoma, Wash.
Dorothy Louise Butler (January, 1961) _____ Washington, D. C.
James Thomas McKeel, Jr. (January, 1961) _____ Durham
Benjamin Franklin Williams (January, 1961) _____ Richmond, Va.

Physics

Jack Allen Gardner (January, 1961) _____ Pasadena, Calif.
John Weldon Hall, II (August, 1960) _____ Madisonville, Ky.
Charles Robert Hutchins (July, 1960) _____ Raleigh
Robert Philip Kennel (July, 1960) _____ New Bern
Gary Thomas Smith (August, 1960) _____ Klamath Falls, Ore.

Psychology

Robert William Buchanan (January, 1961) _____ Winston-Salem
Joseph William Cunningham (January, 1961) _____ Tampa, Fla.

Rural Sociology

Betty Hutchinson Wiser (January, 1961) Plymouth, Ohio

Soils

Robert Bancroft Cate, Jr. (July, 1960) Raleigh

Howard Gordon Small, Jr. (July, 1960) Fair Bluff

Textiles

Charlie Kaw (January, 1961) Rangoon, Burma

George Henry Lourigan (August, 1960) New City, N. Y.

Forrest Franklin Schrum, Jr. (August, 1960) Newton

Wood Technology

Robert Bridger Phelps (July, 1960) Windsor

Zoology

William Everett Neal (January, 1961) Stokesdale

Doctor of Philosophy Degrees

- Dissertation: Charles Walter Alliston, Animal Industry, (July, 1960)
The influence of ambient temperature on early pregnancy loss as determined by embryo transfer
- Dissertation: Meryl Naevé Christiansen, Field Crops (August, 1960)
A study of the effect of temperature levels of germination environment on chemical and physical characteristics of cotton seedlings
- Dissertation: Lindon U. Cockroft, Agricultural Economics (August, 1960)
A systems analysis of the harvesting, curing, and marketing stages of flue-cured tobacco production
- Dissertation: Dale Edward Cooper, Experimental Statistics (January, 1961)
Available soil moisture as a stochastic process
- Dissertation: Kenneth Deane Fisher, Plant Pathology (August, 1960)
Some physiological comparisons of the *Fusarium* surface rot and *Fusarium* wilt pathogens of sweet potato
- Dissertation: Raymond Walter Gieseman, Agricultural Economics (July, 1960)
Explanation of consumer behavior in terms of want-satiation measures for goods
- Dissertation: Dorsey McPeake Gossett, Field Crops (January, 1961)
The response of alfalfa to defoliation by grazing animals as compared to clipping
- Dissertation: Kenneth Lee Hill, Field Crops (July, 1960)
The effects of herbicidal chemicals on the activity of terminal oxidase enzymes in plant tissue
- Dissertation: Alfred Jones, Field Crops (January, 1961)
Character association analysis in alfalfa
- Dissertation: James Murray Leatherwood, Animal Industry (January, 1961)
Study of cellulase from rumen bacteria and from *Ruminococcus albus*
- Dissertation: Leandros Philip Lenas, Chemical Engineering (January, 1961)
Evaluation of sulphurous acid as a leaching agent for oxidized low grade nickel ores
- Dissertation: Marvin Frederick Lindsey, Genetics (July, 1960)
The effects of linkage bias on estimates of genetic variances and the average degree of dominance for genes influencing quantitatively inherited characters in the F and advanced generations of a hybrid population of corn
- Dissertation: Hayne Palmour, III, Mineral Industries (January, 1961)
Dislocation structures in single crystal sapphire as revealed by thermal etching
- Dissertation: William Morton Powell, Plant Pathology
Efficacy of sampling and assay techniques in estimating plant parasitic nematode populations in field soils
- Dissertation: Robert Leroy Rizek, Agricultural Economics (January, 1961)
An economic appraisal of farming adjustment opportunities to meet changing conditions in Economic Area 7, North Carolina

- Dissertation:** John Leonard Ruehle, Plant Pathology (January, 1961)
Investigation of the relationships of plant-parasitic nematodes to the stunting of pines in outplantings
- Dissertation:** John Robert Schabinger, Animal Industry (January, 1961)
Genetic relationships between lactation milk and fat yields and increases in production with age
- Dissertation:** Eyvind Thorbjornsen, Forestry (January, 1961)
Variation in loblolly pine (*Pinus taeda* L.)
- Dissertation:** John Thomas Webster, Experimental Statistics (July, 1960)
A decision procedure for the inclusion of an independent variate in a linear estimator
- Dissertation:** Charles Darrel Welch, Soils (August, 1960)
A study of the mineralizable nitrogen fraction of selected North Carolina soils and its relation to crop responses to applied fertilizer nitrogen
- Dissertation:** Wesley Witcher, Plant Pathology (July, 1960)
Blueberry stem blight caused by *Botryosphaeria dothidea*

Recipients of Honorary Degrees

FOR THE HONORARY DEGREE OF DOCTOR OF HUMANITIES

JOHN COLUMBUS COWAN, JR.

Vice Chairman, Board of Directors, Burlington Industries, Inc.

Any history of the great textile industry of this state and nation will have to accord a significant place to JOHN COLUMBUS COWAN, JR. To this industry and to the total civic, educational, and social development of North Carolina he has devoted a large part of his life. Beneath his admirable modesty are outstanding executive ability, imaginative leadership, and vibrant human warmth that have won him universal esteem. To him North Carolina State College is pleased to award the degree of Doctor of Humanities.

FOR THE HONORARY DEGREE OF DOCTOR OF SCIENCE

FREDERICK CARLTON GARDNER

President, Ebasco Services Incorporated

As a distinguished engineer and an internationally recognized authority on public utilities, FREDERICK CARLTON GARDNER has pioneered in the field of outdoor power plant design and automation and has led one of the country's largest engineering firms to a position of world prestige. As one of our most accomplished alumni, as a Southern gentleman of quiet humor and diplomatic instincts, and as a technologist of extraordinary merit and integrity, North Carolina State College is proud to honor him with the degree of Doctor of Science.

FOR THE HONORARY DEGREE OF DOCTOR OF SCIENCE

IRVINE THEODORE HAIG

Director, Southeastern Forest and Range Experiment Station

From the pines of Chile to the poplars of Rome, the name of IRVINE THEODORE HAIG has long been known as that of a silviculturist with a brilliant genius both for research and for organization in forest management. A native Pennsylvanian who got tar on his heels early as a young apprentice in the Appalachians, he has been an outstanding figure in forestry in North Carolina, in the Western Hemisphere, and in the world for almost two decades. North Carolina State College is proud to honor him with the degree of Doctor of Science.

FOR THE HONORARY DEGREE OF DOCTOR OF SCIENCE

THELMA HOWELL

Executive Director, Highlands Biological Station

As an avid wielder of the fly-rod in the cool trout streams of our highlands, as an important laboratory scientist for whom another species of fly has had the honor to be named, as an inspiring teacher, and as an efficient administrator, THELMA HOWELL has earned the admiration not only of the native folk of the Southern Appalachians but also of scientists, business men, and educators everywhere. She was early nicknamed "Doc" Howell by her family, her friends, and her students. North Carolina State College is now pleased to give official confirmation to the title by awarding her the degree of Doctor of Science.

FOR THE HONORARY DEGREE OF DOCTOR OF SCIENCE

THOMAS FRANKLIN PARKER

Statistician (retired), North Carolina Office of Agricultural Estimates, USDA

In many ways THOMAS FRANKLIN PARKER has been the father of modern agricultural statistics for North Carolina. His qualities of determination against persistent handicaps, his great imagination for innovations in procedure, his receptivity to new ideas, and his ability to select and train promising young men in the field of statistics have won for him high admiration and enduring affection. North Carolina State College is delighted to honor this valuable alumnus with the degree of Doctor of Science.

Awards for Achievement

1960-1961

SCHOOL OF AGRICULTURE

Agricultural Economics:

Wall Street Journal Achievement Award: Charles Harvey Little, Kenly.

Agricultural Engineering:

American Society of Agricultural Engineers, Student Honor Award: Shelton Y. Adcock, Henderson.

Senior Honor Award in Agricultural Engineering Technology: Daniel Boyd, III, Lincolnton.

First Recipient of Manly G. Mann Memorial Fellowship: Sidney E. Law, Pelham.

Agronomy:

Senior Highest Scholastic Average in Field Crops and Soils: Chusak Chavengsak-songkram (Field Crops), Bangkok, Thailand.

American Society of Agronomy Award, Most Outstanding Senior: Roger Wayne Bone (Field Crops), Nashville.

Agronomy Club Leadership Award: Roger Wayne Bone (Field Crops), Nashville.

National Plant Food Institute Agronomy Achievement Award: Roger Eugene Hanes (Soils), Yadkinville.

Animal Industry:

The Fred M. Haig Trophy: Gerald B. White, Statesville.

Ambrosia Chocolate Award: Atlas Gordon Neville, Chapel Hill.

Gamma Sigma Delta:

Sophomore Certificate: John Amos Toms (School of Forestry), Forest City.

Senior Certificate: Yoel Haitovsky (School of Agriculture—Agricultural Economics and Statistics), Haifa, Israel.

Horticulture:

Outstanding Senior Award: Otho Sylvester Wells, Watha.

SCHOOL OF DESIGN

American Institute of Architects School Medal: Frederick Grieger, New York, New York.

American Institute of Architects Book Award: Charles Albert Miller, Jr., Richmond, Virginia; Thomas Francis Van Aarle, Jr., Saginaw, Michigan.

Alpha Rho Chi Medal: Joseph Valentine Morog, Tonawanda, New York.

American Society of Landscape Architects Certificate of Merit: Robert Lincoln Phillips, High Point.

North Carolina Chapter of the American Institute of Architects Book Awards: Frederick Grieger, New York, New York.; Duncan Gilchrist Hudson, Birmingham, Michigan; James Michael Kinlaw, Lumberton; Thomas Francis Van Aarle, Jr., Saginaw, Michigan.

SCHOOL OF EDUCATION

Kappa Phi Kappa Scholarship Medal: Charles Edwin Russell, Jamesville.

SCHOOL OF ENGINEERING

The School of Engineering Award: Gold Watch to Outstanding Senior in School of Engineering, James Richard Currie, Hickory. (Senior in Industrial).

The Hamilton Watch Award: Watch awarded to a senior by Hamilton Watch Company for combined engineering and humanities studies, Thomas Lane Jones, Brevard. (Senior in Electrical).

Ceramic Engineering: J. C. Steele Scholarship Cup—Awarded to an upperclassman with highest scholastic average for past year's work—Walter J. Lackey, Jr., Fallston. (Senior in Ceramics).

Chemical Engineering: American Institute of Chemical Engineers Certificate—Awarded to a junior on the basis of freshman and sophomore record—William Herbert Slack, Wilmington. (Junior in Chemical).

Electrical Engineering: Eta Kappa Nu Sophomore Award—Tommy G. Sharpe, Statesville. (Sophomore in Electrical).

Institute of Radio Engineers Awards: Junior Year Award—John Theodore Curlee, Winston-Salem. (Junior in Electrical). Senior Year Award—James Edwin Tysinger, Franklin. (Senior in Electrical).

Mechanical Engineering: Pi Tau Sigma Award—Jerry Stephenson Lee, New Bern. (Sophomore in Mechanical).

Institute of Aeronautical Sciences Scholarship Award: James Robert Reynolds, Boone. (Senior in Mechanical, Aeronautical Option).

SCHOOL OF FORESTRY

Xi Sigma Pi Award: James Hall Roberds, Savannah, Georgia.

Xi Sigma Pi Freshman Award: Charles Everett Dunning, Woodland.

Continental Can Competitive Scholarship Awards: James Lewis Hamrick, III, Richmond, Virginia. Donald Bruce Zobel, Raleigh.

Homelite Honor Award: Daniel Lawrence Grimsley, Acme.

Biltmore Scholarship Awards: David Franklin Jolly, Norris, Tennessee; Alvin Yates Roberts, Cherryville; Thomas Lawson Harrill, Shelby.

Slocum Scholarship Awards: Ronald Fred Foster, Ferguson; Clyde Mitchell Gurganus, Williamston.

Alpha Zeta Scholarship Cup Award: Charles Everett Dunning, Woodland.

SCHOOL OF GENERAL STUDIES

Rudolph E. Freund Prize for Excellence in the Social Sciences: Yoel Haitovsky, Haifa, Israel.

B. F. Brown Award for Excellence in the Liberal Arts: William Patrick Kolodny, Wilkesboro.

SCHOOL OF PHYSICAL SCIENCES AND APPLIED MATHEMATICS

The Chemical Rubber Company Achievement Award for the Outstanding Student in Freshman Chemistry: Donald Bruce Zobel, Raleigh.

The Chemical Rubber Company Achievement Award for the Outstanding Student in Freshman Mathematics: Robert Thomas Rood, Cary.

SCHOOL OF TEXTILES

American Association for Textile Technology Award: William Knight Poole, Charlotte.

American Association of Textile Chemists and Colorists Award: Fred Eugene Wilson, Jr., High Point.

Delta Kappa Phi Award: Ronald Russell Medders, Mt. Holly.

Sigma Tau Sigma Award: Charles David McMahon, Swannanoa.

Textile Veterans Association Award: Gene Erwin Inman, Fairmont.

Phi Psi Award: Charles Edward Huffstetler, Raleigh.

Saul F. Dribben Memorial Award: Henry Kimbrough Brannon, Jr., Raleigh.

John M. Reeves Scholarship: Thomas E. McCall, Jr., Black Mountain.
North Carolina Textile Manufacturers Association Award: Henry Kimbrough Brannon, Jr., Raleigh.

ALUMNI ATHLETIC TROPHY

Arthur Bruce Hoadley, Raleigh.

PHI KAPPA PHI, NATIONAL HONORARY SCHOLARSHIP SOCIETY

Graduate Student Ph. D. Award: John William Bishir, Webb City, Missouri.
Graduate Student Masters Award: Seymour Bush, New York, New York.
Sophomore Honorary Award: William Marcus Deal, Lenoir.
Junior Honorary Award: Richard Wayne Bullock, Zebulon.
Senior Honorary Awards: Philip Stephen Jackson, Pittsboro; Wilbur Joseph Privott, Jr., Tyner.

AIR FORCE AWARDS

American Legion Medal: Cadet Lt. Colonel Jerry F. Arnold, Spruce Pine.
Sons of the American Revolution Medal: Cadet Eugene H. Major, Charles City, Virginia.
Air Force Association Award: Cadet Lt. Colonel Charles H. Meade, Durham.
Convair AFROTC Cadet Award: Cadet O. R. Wiseman, Marion.
Daughters of the Founders and Patriots of America Award: Cadet Joseph C. Greene, Granite Falls.
Chicago Tribune Gold Award: Cadet Colonel Bobby L. Meadows, Durham.
Chicago Tribune Gold Award: Cadet Major Charles B. Foushee, Sanford.
Chicago Tribune Silver Award: Cadet David W. Whitlow, High Point.
Chicago Tribune Silver Award: Cadet Raymond F. Rudell, Hendersonville.
Reserve Officers Association Award: Cadet Captain David A. Purcell, Fieldale, Virginia.
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Major General William C. Lee Scholarship Award: Cadet Stanford L. Carter, Charlotte.
Arnold Air Society Award: Cadet James K. Morrow, Washington.
AFROTC Flight Leader Award: Cadet Captain Victor M. Floyd, Fair Bluff.
Professor of Air Science Honor Squadron Award: Cadet Major Elliott B. Barnes, Jr., Corapeake.
Armed Forces Communications and Electronics Association Award: Cadet Captain David B. Whitley, Washington.

ARMY ROTC AWARDS

The Department of the Army Superior Cadet Award: Senior Class: Cadet Lt. Colonel Samuel Calvin Matthews, Raleigh; Junior Class: Cadet First Sergeant Richard Alexander Heustess, Wilmington; Sophomore Class: Cadet Private William Arthur Brantley, Raleigh; Freshman Class: Cadet Private John Robert Booth, Richmond, Virginia.
Certificate of Meritorious Leadership Achievement: Cadet Major Eric Errol Smart, Forest City.
The Colonel John W. Harrelson Scholarship: Cadet Private John Robert Booth, Richmond, Virginia.
Association of the United States Army Medal: Cadet Sergeant First Class Baxter Lamar Thomas, Jr., Charlotte.
American Ordnance Association Key: Cadet Lt. Colonel Stephen Stanley Koszewski, Charlotte.
Best Drilled Platoon Award: Cadet 2d Lt. Augustus Steele Hall, Raleigh, 3rd Platoon, "A" Company, 2d Battle Group.

Master Sergeant Horace C. Thomas, Sr. Award: Cadet Sergeant Clay Edwin Sams, Dillard, Georgia.

Best Drilled Pershing Rifle Award: Cadet 2nd Lt. Arthur Edwin DuMont, Jr., Charlotte.

Chicago Tribune Gold Medals: Cadet Lt. Colonel John Austin Edmondson, Gainesville, Georgia; Cadet Lt. Colonel Paul Albert Romeo, Summerville, South Carolina.

Chicago Tribune Silver Medals: Cadet Sergeant First Class Richard Hobson Blackwell, Jr., Charlotte; Cadet Sergeant First Class William Calvin Carpenter, Hickory.

Society of American Military Engineers Medal: Cadet Major Alvin Dillard Hooper, Tuckasegee.

National Defense Transportation Association Medal: Cadet Major Lucius Hazlett Bracey, Jr., South Hill, Virginia.

Quartermaster Association Award: Cadet Master Sergeant Richard Hall Williamson, Canton.

Armed Forces Chemical Association Award: Cadet Major Charles LeRoy Sander-son, Erwin, Tennessee.

American Legion Medal: Cadet Colonel Daniel Lee Whiteside, Asheville.

Scabbard and Blade Award: Cadet Private Tommy Goode Sharpe, Statesville.

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Armed Forces Communications and Electronics Award: Cadet Captain Billy Wayne Carter, Middlesex.

Reserve Officers Association Honor Award: Cadet 2nd Lt. Harry Eugene Mullis, Reidsville.

Reserve Officers Association Medal: Cadet Sergeant Major Walter Bradley Cum-mings, Raleigh.

Pershing Rifles Achievement Trophies: Cadet Private Thomas Stanley Bumgard-ner, Taylorsville; Private Gerald Nathan Moore, Fayetteville; Cadet Lt. Colonel James Benton Jones, Charlotte.

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Pershing Rifles Gold Medal: Cadet Lt. Colonel James Benton Jones, Charlotte.

Sons of American Revolution ROTC Medal: Cadet First Sergeant Paul Weber Brant, Canton.

Daughters of Founders and Patriots of America Award: Cadet Private Joel Christopher Heath, New Bern.

Armor Association Award: Cadet Lt. Colonel John Austin Edmondson, Gaines-ville, Georgia.

Professor of Military Science Award: Cadet Harold Alton Stegall, Warrenton. Commanding Officer of Company "D", 3rd Battle Group.

Juanita Stolt
STATE COLLEGE RECORD

Vol. 60

No. 2

1961

Summer Sessions

NORTH CAROLINA STATE COLLEGE



REGULAR SESSIONS

JUNE 13-JULY 20

JULY 21-AUGUST 25

NORTH CAROLINA STATE COLLEGE

1961 SUMMER SESSIONS

CALENDAR

FIRST SESSION

June 12	Monday	New student orientation.
June 13	Tuesday	Registration for regular session. Late registration fee of \$5 payable by all registering after June 13.
June 14	Wednesday	First day of classes.
June 19	Monday	Last day for registration. Last day to withdraw with refund and last day to drop any course with refund.
June 23	Friday	Last day to drop courses without failure and last day to withdraw without failure.
July 4	Tuesday	Holiday.
July 19	Wednesday	Last day of classes.
July 20	Thursday	Final examinations.

SECOND SESSION

July 20	Thursday	New student orientation.
July 21	Friday	Registration. Late registration fee of \$5 payable by all registering after July 21.
July 24	Monday	First day of classes.
July 28	Friday	Last day for registration. Last day to withdraw with refund and last day to drop any course with refund.
August 2	Wednesday	Last day to drop courses without failure and last day to withdraw without failure.
August 24	Thursday	Last day of classes.
August 25	Friday	Final Examinations.

Published monthly by the North Carolina State College of Agriculture and Engineering. State College Station entered as second-class matter October 16, 1917, at the post office at Raleigh, N. C. Under the act of August 24, 1912.

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- G. K. MIDDLETON, Ph.D.
Prof. of Field Crops
- H. M. MIDDLETON, B.S.
Assistant Professor of Textiles
- J. LEONARD MIDDLETON, M.A.
Associate Professor of Philosophy and Religion
- C. H. MILLER, Ph.D.
Assistant Professor of Horticulture
- G. C. MILLER, Ph.D.
Assistant Professor of Zoology
- H. G. MILLER, Ph.D.
Professor and Head of the Department of Psychology
- L. L. MILLER, M.A.
Associate Professor of Recreation and Park Administration
- A. MITCHELL, M.S.
Professor of Engineering Mechanics
- CARL A. MOELLER, Ph.D.
Assistant Professor of Industrial Arts
- R. H. MOLL, Ph.D.
Assistant Professor of Genetics
- R. P. MOORE, Ph.D.
Professor of Field Crops
- CHARLES G. MOREHEAD, Ed.D.
Associate Professor of Education
- D. E. MORELAND, Ph.D.
Assistant Professor of Field Crops
- J. W. MORGAN, M.A.
Instructor in Chemistry
- W. E. MOSER, B.S.
Associate Professor of Textiles
- NELSON MURBACH, Ph.D.
Visiting Professor of Industrial Education
- C. F. MURPHY, Ph.D.
Assistant Professor of Field Crops
- R. L. MURRAY, Ph.D.
Professor and Head of Department of Physics
- G. A. MYERS, M.S.
Instructor in Mechanical Engineering
- HOWARD MOVES NAHIKIAN, Ph.D.
Professor of Mathematics
- S. E. NEWMAN, Ph.D.
Associate Professor of Psychology
- L. N. NIELSEN, Ph.D.
Professor of Plant Pathology
- DAVIE EUGENE NIXON, M.S.
Instructor of Mathematics
- ARNOLD R. NOLSTAD, Ed.D.
Associate Professor of Mathematics
- C. J. NUSBAUM, Ph.D.
William Neal Reynolds Distinguished Professor of Plant Pathology
- G. M. OLIVER, M.S.
Instructor in Chemistry
- JOHN CLARK OSBORNE, D.V.M.
Professor of Animal Industry
- J. E. PARDUE, B.S.
Associate Professor of Textiles
- HUBERT VERN PARK, Ph.D.
Professor of Mathematics
- DANIEL MCLEOD PETERSON, M.S.
Associate Professor of Mathematics
- HOWARD ALDRIDGE PETREA, M.A.
Associate Professor of Mathematics
- L. L. PHILLIPS, Ph.D.
Associate Professor of Field Crops
- WALTER H. PIERCE, Ph.D.
Professor of Agricultural Economics
- G. W. POLAND, Ph.D.
Professor and Head of the Department of Modern Languages
- JACK PORTER, M.A.
Instructor in English
- N. T. POWELL, Ph.D.
Assistant Professor of Plant Pathology
- T. L. QUAY, Ph.D.
Professor of Zoology
- HAROLD ARCH RAMSEY, Ph.D.
Associate Professor of Animal Industry
- G. O. RANDALL, M.S.
Professor of Horticulture
- JOHN O. RAWLINGS, Ph.D.
Assistant Statistician
- HORACE RAWLS, M.A.
Associate Professor of Sociology and Anthropology
- J. W. REECE, B.S.
Instructor in Engineering Mechanics
- W. A. REID, Ph.D.
Professor of Chemistry
- M. M. RHOADES, Ph.D.
Visiting Professor of Genetics from University of Indiana
- F. L. ROBERTS, M.S.
Instructor in Zoology
- WM. M. ROBERTS, Ph.D.
Professor of Dairy Manufacturing

- C. C. ROBINSON, Ph.D.
Professor of Chemistry
- H. F. ROBINSON, Ph.D.
Professor of Genetics
- C. S. RUDISILL, M.S.
Instructor in Mechanical
Engineering
- PAUL J. RUST, Ph.D.
Associate Professor of Education
- J. A. SANTOLUCITO, Ph.D.
Assistant Professor of Zoology
- J. N. SASSER, Ph.D.
Associate Professor of Plant
Pathology
- CARL SCHAEFER, Ph.D.
Visiting Professor of Industrial
Education
- C. C. SCARBOROUGH, Ed.D.
Professor of Education
- W. J. SCHULL, Ph.D.
Visiting Professor of Genetics,
University of Michigan
- JACK SCHULTZ, Ph.D.
Visiting Professor of Genetics and
Cytochemistry, Institute for
Cancer Research, Philadelphia,
Pennsylvania
- H. T. SCOFIELD, Ph.D.
Professor and Head of the Depart-
ment of Botany and Bacteriology
- WALTER L. SEEGER, M.A.
Professor of History and Political
Science
- HEINZ SELTMANN, Ph.D.
Assistant Professor of Botany and
Bacteriology
- PETER SHAHDAN, M.S.
Assistant Professor of Mathematics
- MICHAEL SHEA, M.A.
Instructor in Physical Education
- CHING-SHENG SHEN, Ph.D.
Assistant Professor of Economics
- CLARENCE B. SHULENBERGER, M.A.
Professor of Economics
- SOFUS E. SIMONSEN, A.B.
Instructor in Modern Languages
- MARCUS SIMPSON, M.A.
Visiting Professor of Education
- WILLIAM W. G. SMART, JR., Ph.D.
Research Assistant and Professor of
Animal Industry and
Experimental Statistics
- BEN W. SMITH, Ph.D.
Professor of Genetics
- FRANK HOUSTON SMITH, M.S.
Research Associate Professor of
Animal Industry
- NORWOOD G. SMITH, M.A.
Assistant Professor of English
- WILLIAM E. SMITH, Ph.D.
Professor of Physical Education
- JASON LOY SOX, M.S.
Instructor in Mathematics
- MARVIN L. SPECK, Ph.D.
William Neal Reynolds
Distinguished Professor of
Animal Industry
- R. F. STAINBACK, M.S.
Associate Professor of Physics
- S. G. STEPHENS, Ph.D.
William Neal Reynolds
Distinguished Professor of
Genetics
- CHARLES C. STOTT, M.A.
Assistant Professor of Recreation
and Park Administration
- MERLE STRONG, Ph.D.
Visiting Professor Industrial
Education
- W. C. STUCKEY, M.S.
Assistant Professor of Textiles
- P. P. SUTTON, Ph.D.
Professor of Chemistry
- LOUIS HALL SWAIN, M.A.
Associate Professor of English
- WALTER EARL THOMAS, Ph.D.
Associate Professor of Animal
Industry
- D. L. THOMPSON, Ph.D.
Associate Professor of Field Crops
- O. G. THOMPSON, M.A.
Assistant Professor of Economics
- H. L. TITUS, M.A.
Instructor of Modern Languages
- GEORGE S. TOLLEY, Ph.D.
Professor of Agricultural Economics
- JOHN W. TOMLIN, Ph.D.
Assistant Professor of Sociology and
Anthropology
- WILLIAM D. TOUSSAINT, Ph.D.
Professor of Agricultural Economics
- SAMUEL B. TOVE, Ph.D.
Research Associate Professor of
Animal Industry
- H. H. TRIANTAPHYLLOU, Ph.D.
Assistant Professor of Plant
Pathology
- ROBERT T. TROXLER, M.I.A.
Assistant Professor of Industrial
Arts
- JAMES R. TROYER, Ph.D.
Assistant Professor of Botany and
Bacteriology
- LESTER CURTIS ULBERG, Ph.D.
Associate Professor of Animal
Industry
- N. UNDERWOOD, Ph.D.
Professor of Physics
- R. P. UPCHURCH, Ph.D.
Associate Professor of Field Crops
- IVAN VALENTINE, M.S.
Visiting Professor of Education

JAMES H. WAHAB, Ph.D.
Visiting Professor of Mathematics,
Louisiana State University, New
Orleans

W. A. WALTER, M.E.A.
Special Lecturer in Economics

A. W. WALTNER, Ph.D.
Professor of Physics

T. M. WARD, A.B.
Instructor in Chemistry

FREDERICK GAIL WARREN, Ph.D.
Associate Professor of Animal
Industry

GEORGE CARSON WATSON, M.A.
Associate Professor of Mathematics

J. A. WEYBREW, Ph.D.
Professor of Field Crops

ROBERT B. WHITE, M.A.
Instructor in English

R. C. WHITE, Ph.D.
Associate Professor of Chemistry

LARRY A. WHITFORD, Ph.D.
Professor of Botany and
Bacteriology

MAURICE WHITTINGHILL, Ph.D.
Visiting Professor of Genetics from
University of North Carolina,
Chapel Hill, N. C.

R. E. WIGGINS, M.S.
Assistant Professor of Textiles

HARVEY PAGE WILLIAMS, M.A.
Professor of Mathematics

J. C. WILLIAMS, Ph.D.
Assistant Professor of Field Crops

PORTER WILLIAMS, JR., M.A.
Assistant Professor of English

JAMES BLAKE WILSON, Ph.D.
Assistant Professor of Mathematics

N. N. WINSTEAD, Ph.D.
Associate Professor of Plant
Pathology

SANFORD WINSTON, Ph.D.
Professor and Head of the
Department of Sociology and
Anthropology

LOWELL SHERIDAN WINTON, Ph.D.
Professor of Mathematics

GEORGE HERMAN WISE, Ph.D.
William Neal Reynolds
Distinguished Professor of
Animal Nutrition

MILTON BEE WISE, Ph.D.
Assistant Professor of Animal
Industry

T. W. WOOD, Ph.D.
Professor of Economics

ROBERT BAKER WYNNE, M.A.
Associate Professor of English

TALMAGE B. YOUNG, Ed.D.
Associate Professor of Industrial Arts

DIRECTORS OF SPECIAL PROGRAMS AND ACTIVITIES

AGRICULTURAL EXTENSION

Fred S. Sloan *Program Planning* 109 Ricks Hall

COLLEGE UNION

Gerald O. T. Erdahl *Director* 216 College Union

COUNSELING

Lyle B. Rogers *Director* 201 Holladay Hall

DORMITORIES

James S. Fulghum, Jr. *Director* 4 Holladay Hall

LIBRARY

Harlan C. Brown *Director* 130 D. H. Hill Library

RELIGIOUS ACTIVITIES

Oscar B. Wooldridge *Coordinator* Y. M. C. A.

STUDENT ACTIVITIES

Banks C. Talley, Jr. *Director* 206 Holladay Hall

STUDENT HEALTH SERVICE

Dr. Joseph J. Combs Clark Hall

STUDENT HOUSING

Norbert B. Watts *Director* 207 Holladay Hall

TELEVISION

John Young *Director* WUNC-TV Building



THE COLLEGE

North Carolina State College, founded by legislative act on March 7, 1887, first opened its doors to students on October 3, 1889. Since that time, the enrollment has grown from 45 to approximately 6,000, and the faculty has increased from 6 to 600. In 1931, the State's Land Grant College and technological center became a part of the Consolidated University of North Carolina and has since operated as part of a triumvirate that now numbers some 19,000 students.

The major objective of North Carolina State College is to provide an opportunity for students to obtain the highest level of scientific and technological training and, concurrently, to offer them facilities for obtaining a broad and general education. In order to achieve this end, the College is organized into eight major instructional divisions or schools: Agriculture, Design, Education, Engineering, Forestry, General Studies, Physical Sciences and Applied Mathematics, and Textiles, offering undergraduate work in 48 departments. Through the Graduate School, the College provides instruction in some 35 fields leading to the master's degree and in 18 fields leading to the degree of Doctor of Philosophy. The general objectives of the College are also carried out through several institutes and divisions, including the Institute of Statistics, the Agricultural Experiment Station with its 16 test farms, the Agricultural Extension Service, and the College Extension Division.

THE SUMMER SESSIONS

The Summer Sessions at North Carolina State College offer an extensive and varied program to fit the educational needs of more than 4,000 students. Forty-three departments, with a faculty of two hundred, offer work in some three hundred courses, one-third of which are in the area of graduate study and research. Each of the College's eight schools provides facilities for summer study; six of the schools offer courses during each of the regular six-week sessions; the School of Design maintains a nine-week program; the School of Forestry conducts a summer camp for sophomores as well as two five-week practicums, and Agricultural Extension offers a three-week program for Extension workers. Special programs are provided by four institutes: one in genetics, two in nuclear energy, and one in counseling and guidance.

Summer courses and special programs are designed for the undergraduate who wishes to advance his academic standing at the College, for the graduate who needs to continue his study and research during the summer months, for visiting students working toward degrees at other institutions, for teachers earning credit toward the renewal of their certificates or toward advanced degrees, and for persons in professional fields who wish to keep abreast of new developments and trends. In addition, the Summer Sessions offer the high school student planning to enroll in State College an opportunity to take required sub-college level work in English and mathematics.

In keeping with the growing emphasis on science, the 1961 Summer Sessions have increased the regular offerings in chemistry and zoology, and established one of the most comprehensive programs in mathematics and physics available in the Southeast. To meet the needs of a broad, liberal education in the humanities and social sciences, new summer courses have been added in economics, English, history, Russian, political science, psychology, and sociology. The demand for professional and technical training has been met, not only through the regular summer offerings, but by augmented programs in mechanical engineering and textiles. Extensive undergraduate and graduate training has been provided in selected areas of Education and a comprehensive graduate program has been maintained in the agricultural sciences.



Aerial View of College Campus

SPECIAL NOTES

All applicants for the regular Summer Sessions who are not now in residence at State College must complete and return the necessary forms attached at the end of this catalog. To ensure proper enrollment, forms must contain all information requested and, with the exception of the Application for Dormitory Room, must be returned to the Director of Summer Sessions as early as possible. Students attending any of the Institute Summer Sessions or the three-week session in Agricultural Extension should write directly to the director of the program concerned.

All students planning to take courses in both sessions should plan their sequences well in advance. Offerings in the Second Session are often substantially less in number than in the first and, in many instances, departments do not offer courses in both sessions of the summer school.

Everything possible will be done to ensure that the courses listed in this catalog are given at the times indicated. The Director of the Summer Sessions reserves the right, however, to withdraw courses in which the enrollment is deemed insufficient.

ADMISSIONS

FRESHMEN

Entrance examinations are required of all students entering State College as freshmen or as students without college credit and of all transfer students who lack credit in either English or college algebra. Wherever possible, students in this category should take the College Entrance Examination Board Scholastic Aptitude Test, registering for the examination with the College Entrance Examination Board, Box 592, Princeton, New Jersey. Students entering in June, 1961, must take the College Board Examination no later than March 18. Those entering in July may take the examination on May 20. Permission to take these examinations at State College at later dates must be obtained by writing to Dr. Lyle B. Rogers, Director of Counseling.

TRANSFERS AND VISITING STUDENTS

Undergraduate students who have never attended State College, teachers, and others who are enrolling for the summer only *may* be required to furnish a transcript of their academic record. Former students who have attended other institutions since their last residence at North Carolina State College, undergraduate transfers who wish to enroll for a degree, and graduate students enrolling for the first time *must* furnish official transcripts of their academic qualifications. Transfer students who lack credit in either English or college algebra must take the required entrance examinations. (For details concerning the submission of transcripts, see REGISTRATION.)

Brooks Hall
Home of School
of Design



Visiting students should secure a written statement from their regular institution acknowledging that the courses planned by the student are transferable to that institution. These statements are for the students' protection and should not be sent or brought to State College.

COUNSELING SERVICE

The State College Counseling Center, located in Room 202, Holladay Hall, provides a special counseling service to new students in order to assist them in becoming oriented to the College and to aid them in choosing a field of study.

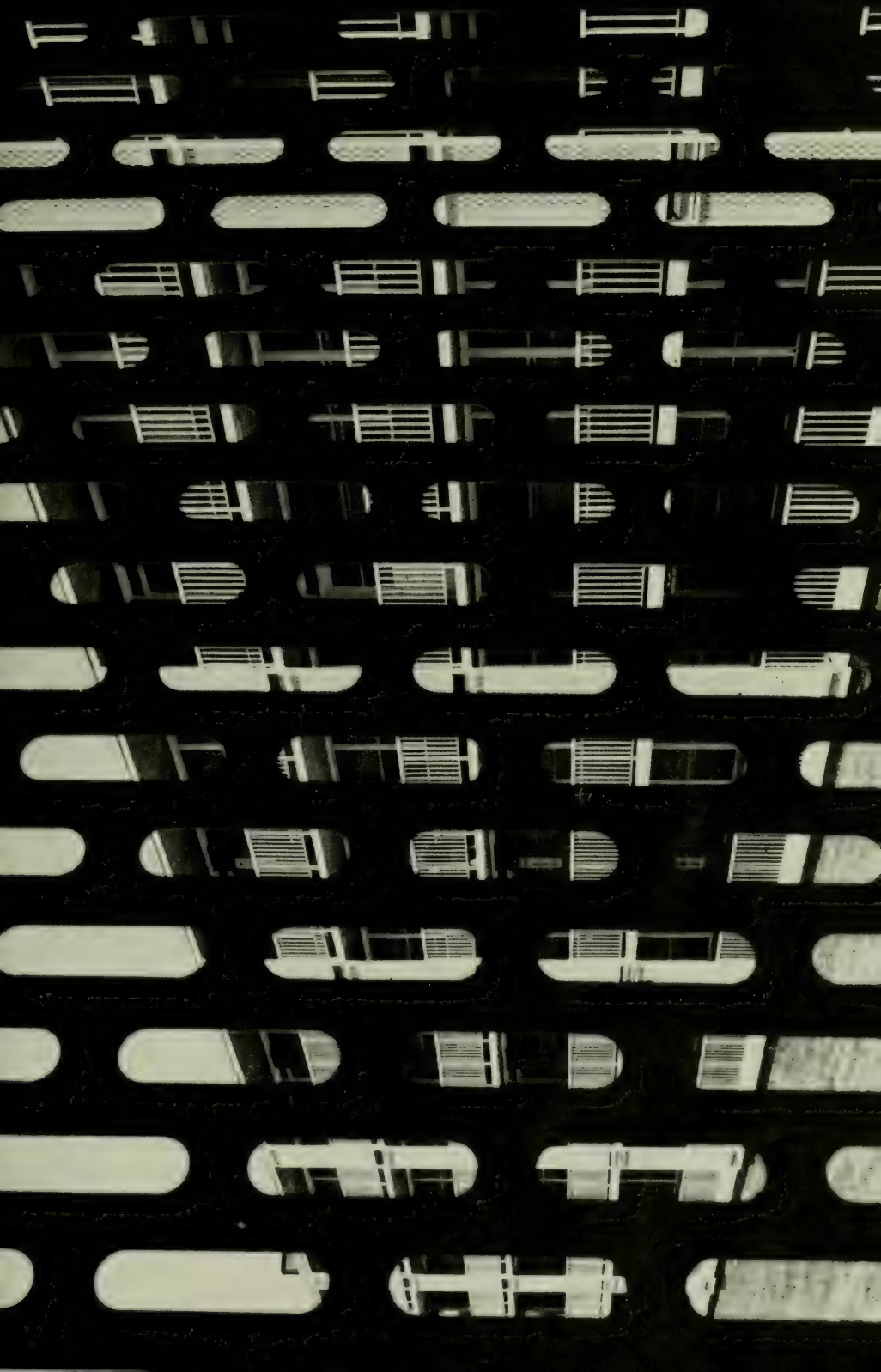
HOUSING

DORMITORIES

BRAGAW Dormitory will be available for occupancy during the 1961 Summer Sessions. Accommodations will be provided for both men and women during each of the regular sessions. Bed linen, blankets and pillows are not furnished; however, linen rental service is available at a cost of \$5.00 for each regular Summer Session. Students will normally be housed two in each room. Janitorial service, supplied by the College, does not include the making of beds. Single rooms are not available.

Forms for requesting dormitory rooms for the regular Summer Sessions and linen rental service will be found at the end of the catalog.

Persons attending *special* Summer programs, such as, Agricultural Extension and other special groups, should contact the Director of their particular program for housing information.



LINEN RENTAL SERVICE

This is an additional service the College is offering this year. The service provides an initial issue of linen—two sheets, one pillow case, three bath towels, and a complete change each week during the Summer Session. Students using this service need not purchase or bring these items to school. The service is available to all students at a cost of \$5.00 per Summer Session. Applications for this service will be found at the end of this catalog and should be mailed to the Business Office.

EXPENSES

The following expenses apply for each of the regular six-week sessions:

TUITION	\$ 7.50 per semester credit for North Carolina students. \$18.50 per semester credit for out-of-state students. \$ 7.50 for each credit hour audited.
FEES	\$11.00 for registration and other fees (A late fee of \$5.00 will be charged all students completing their registration after the designated date.)
ROOM	\$30.00 per person, plus a \$2.00 key deposit.
BOARD	Board is cafeteria style and the cost depends upon the individual student. A fair estimate would be about \$75.00 per session.
GRADUATION FEE	Any student who is completing requirements for graduation at the close of one of the Summer Sessions will be charged a fee of \$9.00 if he is securing a Bachelor's degree, a fee of \$12.00 if he is completing work for a Master's degree, and a fee of \$17.00 if he is a candidate for the degree of Doctor of Philosophy. The Graduate School will also charge Doctor of Philosophy candidates a fee of \$21.00 for microfilming and mailing dissertations.

Refunds

Tuition and Fees:

A student who withdraws from school on or before the last day for registration will receive a refund of the full amount paid, less \$5 registration fee. On later withdrawals no refund is made.

REGISTRATION

STATE COLLEGE STUDENTS

Students planning to attend the Summer Sessions and who are completing the spring semester in residence should pre-register at Pullen Hall between May 1 and May 15. Permits to register for the first Summer Session may be picked up at Pullen Hall on Monday, June 12, between 9:00 A.M. and 4:00 P.M., and on Tuesday, June 13, between 9:00 A.M. and 12:00 noon. Permits for the second session will be available at Pullen Hall on Thursday and Friday, July 20 and July 21. Registration instructions will be found with the permits.

Former State College students who were not in residence during the spring semester should go to Room 10, Holladay Hall, to apply for readmission not later than May 15, or to save time, apply in writing to the Director of Admissions by May 15. To obtain their permits these students should go to Pullen Hall on the dates mentioned in the preceding paragraph. Former students who have attended other institutions since their last residence at State College must have official transcripts sent to the Registration Office before registering for one of the Summer Sessions.

VISITING STUDENTS

Undergraduate students from other colleges, teachers, and other students coming to State College for the summer only, should submit their *Summer Session* applications to the Director of Admissions, Holladay Hall, not later than May 26th prior to the opening of the Summer Session. A transcript of academic credits and other information attesting to the qualifications of the student may be required for completion of the application.

UNDERGRADUATE TRANSFERS

Undergraduate students who desire to become regularly enrolled for credit toward an undergraduate degree should write to the Director of Admissions for full information. Before their admission can be approved, they will need to fill out a *regular* application and have official transcripts sent directly to the Director of Admissions.

GRADUATE STUDENTS

Graduate students who desire to enroll for the first time in the Graduate School should write in advance to Dr. Walter J. Peterson, Dean of the Graduate School, and secure approval. Official transcripts of undergraduate and any previous graduate work will be required prior to registration for the Summer Sessions.



Entrance to Pullen Hall
Primrose Hall in Background

SPECIAL REGISTRATION PROCEDURES FOR PUBLIC SCHOOL PERSONNEL

Public school personnel (primary teachers, secondary teachers or administrators) registering at State College for the first time and interested primarily in "Certification Credit" may enroll as unclassified graduate students for a maximum of six (6) semester hours without forwarding official transcripts of previous work to the Graduate Office. If, however, application is not made through normal channels for graduate credit in the session in which the course or courses are taken, the student will not be permitted to apply the credit toward an advanced degree, at State College, or elsewhere.

In all cases where the teacher's interest is primarily in approval for certification credit, the School of Education will be responsible for assessing the adequacy of the teacher's qualifications for enrollment in the College and in the particular course or courses. The School of Education will also be responsible for adequately advising all such students early in each school session that if it is wished that credits will in due course apply to a higher degree at State College, or elsewhere, normal admission procedures will be required.

All teachers who have previously attended State College and earned six (6) semester hours of credit and wish to enroll for additional courses for graduate credit will be required to make application for admission to the Graduate School in the usual manner, if they have not already done so.

In all cases a "B" level of academic performance or better is required.

MAXIMUM CREDIT HOURS

The normal load for either Session of the Summer School is six semester hours. Any student may carry less. Loads in excess of seven hours must be approved by the Dean or Director of Instruction of the school in which the student is registered. Such approvals must be in writing on the original copy of the student's Summer Session roster of courses. The maximum load is nine hours for any one session.

VETERANS under P. L. 346 must carry 4 semester hours and undergraduate VETERANS under P. L. 550 must carry five semester hours to qualify for full subsistence or payment. Graduate VETERANS under P. L. 550 should carry four semester hours for full subsistence. VETERANS desiring benefits under P. L. 550 must fill out the required forms for the Veteran's secretary in the Coliseum at Registration or in Room 9, Holladay Hall, immediately after Registration day.

THE COLLEGE LIBRARY

The D. H. Hill Library of North Carolina State College houses a collection of more than 200,000 volumes of books and bound journals. The collection has been developed to reflect the scientific and technical interests of the College, but materials in the arts and social sciences



are also well represented. The Library subscribes to more than 2,600 current periodicals and contains over 12,000 bound volumes of documents from the Federal Government and the various Experiment Stations. The Library has been designated as one of the depositories for all unclassified publications of the Atomic Energy Commission and receives on exchange the publications of many foreign countries—especially those publications dealing with the agricultural sciences and with engineering.

A new, modern library building provides shelving for 400,000 volumes. Study carrels, conference rooms, and seminars are available for the students and faculty of the College. Equipment for the production of photographic copies and for microphotography is available and there is excellent equipment on hand for reading microfilms and microcards.

Students and faculty will find the College Library a useful and enjoyable adjunct to their Summer Sessions program, and will find the materials and services afforded to scholar, student, and browser a welcome discovery.

Library hours for the Summer Sessions are as follows:

Monday through Friday, 8:00 a.m. to 10:00 p.m. and Saturday, 8:00 a.m. to 1:00 p.m.

THE COLLEGE UNION

The center of summer activity is the College Union, one of the nation's most modern social-cultural centers. All students on the campus are members and are invited to attend, free of charge, all programs sponsored by the Summer Sessions committee. Every member is welcome to join the committee and take part in planning the Union social-cultural program.

During the summer, the Union sponsors a variety of entertainment. Activities will probably include swimming, parties, square dances,



The College Union

patio dances, outings to the beach and to the mountains, picnics, outdoor movies, and a varied program of professional entertainment.

The College Union offers many facilities and services to members and their guests. Facilities for recreation and leisure include a music listening lounge, a television lounge, a gallery for the display of student art and craft, a photography lab, a craft shop, a library lounge, a billiard room, and a quiet room. Services include a barber shop, cloak room, snack bar, dining room, hotel rooms, meeting rooms, and a center where students may apply for work while attending college.

Building hours for the first session are as follows:

Monday-Thursday	7:00 A.M. to 10:30 P.M.
Friday	7:00 A.M. to 11:00 P.M.
Saturday	8:00 A.M. to 6:00 P.M.
Sunday	12:00 noon to 6:00 P.M.

Second session:

Monday-Thursday	7:00 A.M. to 10:00 P.M.
Friday	7:00 A.M. to 10:30 P.M.
Saturday	8:00 A.M. to 6:00 P.M.
Sunday	12:00 noon to 6:00 P.M.



Entrance to WUNC TV N. C. State College

WUNC-TELEVISION

State College maintains one of the three studios of WUNC-Television, Channel 4, North Carolina's Educational Television operation. Similar studios, cooperating in the production of Channel 4's programming, are located at the University in Chapel Hill and at the Woman's College in Greensboro. Throughout the year, Channel 4 programs a variety of educational subjects including courses for credit—designed to aid teacher certification, informational series for continuing adult education, and programs dedicated to the advancement of cultural activities.

The WUNC-Television studios at Raleigh occupies a modern building on Western Boulevard directly west of the Campus and includes a complete complement of telecasting equipment for independent operation. Interested visitors are invited to inspect the studio and enjoy the summer programs.

SPECIAL SESSIONS AND PROGRAMS

SECOND SUMMER INSTITUTE OF GENETICS

FOR COLLEGE TEACHERS

JUNE 12-JULY 20, 1961

This institute is one of a group of summer institutes sponsored by the National Science Foundation in a program directed toward strengthening teachers' mastery of science and mathematics. The objectives of this institute are to provide, for college teachers, formal basic training in genetics and a background of information concerning recent developments in the field of genetics. The program is designed to increase their capacity as teachers and thereby promote the development of more stimulating, up-to-date courses in genetics.

The institute will offer coordinated course work with demonstrational laboratory exercises, series of lectures on specialized subjects, invitational lectures on current topics and orientation visits to active research projects and facilities.

The National Science Foundation has supplied funds for 40 stipend awards of \$450.00 each. In addition, allowances of \$90.00 for each dependent, with a maximum of four are available. Travel allowances of four cents per mile for the round trip to Raleigh, to a maximum of \$80.00, are also provided.

Registration will be held during Monday, June 12, 1961. Persons who receive stipends will be preregistered and will pay no tuition or fees. Other persons, who do not receive stipends, may attend the institute and will be charged the regular fees of this institution. In-state residents pay \$7.50 per credit hour and out-of-state residents pay \$18.50 per credit hour.

Application forms for NSF stipends may be obtained from: Summer Institute of Genetics for College Teachers, Department of Genetics, North Carolina State College, Raleigh, North Carolina. Completed applications must be postmarked February 15, 1961, to guarantee that they will be considered. All initial stipend offers will be made by March 15, 1961, and recipients have until April 1, 1961, to accept or decline. A recipient replying earlier has the opportunity to withdraw his acceptance without prejudice until April 1.

NUCLEAR ENERGY SUMMER INSTITUTES PROGRAM

JUNE 19-AUGUST 12

The Nuclear Energy Summer Institutes Program is sponsored by the U. S. Atomic Energy Commission and the American Society for Engineering Education.

Under the terms of the program, N. C. State College will offer this summer two institutes designed for engineering educators from col-

leges and universities in the United States and Puerto Rico. The Engineering School, the School of Physical Sciences and Applied Mathematics, and the Extension Division present these programs.

One institute will offer an 8-week basic study course of nuclear engineering and the other will be a 4-week advanced institute covering reactor physics. The purpose of the institutes is to provide special training in the field of nuclear energy and the nature of nuclear reactor programs for the nation's engineering educators. The teachers then can incorporate the material in their teaching program or teach new courses in the rapidly expanding nuclear program of the nation.

Those attending, as in the past, are to receive from their institution one month's salary in addition to that received for services during the academic year, and the AEC, through grants to the universities, matches the amounts up to \$750, plus transportation. Professors attending the institute are selected on the basis of personal qualifications, as well as on the proposed programs of their institutions, by ASEE's Nuclear Committee.

COUNSELING AND GUIDANCE TRAINING INSTITUTE

JUNE 12—JULY 21, 1961

The Department of Occupational Information and Guidance of the School of Education has been selected for the third consecutive summer by the U. S. Office of Education to conduct a summer Counseling and Guidance Training Institute as authorized by the National Defense Education Act. The purpose of the Institute is to help advanced school counselors do a more professional job in counseling able secondary school students.

The Institute will offer two courses at an advanced level to enrich the professional preparation and improve the qualifications of twenty-five experienced secondary school counselors. The two courses, Personality and Interest Assessment and Supervised Practicum in Counseling, will be devoted to theory in the morning sessions and laboratory practice in counseling in the afternoons. Satisfactory completion of the two courses will give the enrollee six semester hours of graduate credit which may be applied toward the Master's degree or toward counselor certification. The National Defense Education Act has supplied funds for twenty-five stipend awards of \$450 each for public school counselors attending the Institute, plus \$90 for each dependent. Personnel preparing for counseling in private schools may be admitted, but are not eligible for stipends.

Each enrollee must have completed at least fifteen semester hours of graduate courses in counselor education. Preference will be given to outstanding full-time secondary school counselors who plan to remain in the field of counseling. A letter of recommendation will be

required from each applicant's principal and superintendent stating that they plan to assign the person as a full-time counselor during the 1961-62 academic year. A selection committee will review the credentials of all applicants.

The two courses will be taught by regular staff members of the Department of Occupational Information and Guidance and a visiting professor. In addition, special lectures by outstanding professional leaders in psychological counseling and in personality and interest measurement will be scheduled to reinforce and enhance the Institute program.

Additional information concerning the Institute will be sent upon request. Interested persons should write to Dr. Charles G. Morehead, Director of Counseling and Guidance Training Institute, Department of Occupational Information and Guidance, School of Education, P. O. Box 5125, Raleigh, N. C.

PROFESSIONAL IMPROVEMENT FOR INDUSTRIAL EDUCATION TEACHERS AND SUPERVISORS

The rapid expansion of vocational education programs in the high schools and industrial education centers has increased the demand for competent personnel to provide instruction for the high school youth and adults. An attempt is being made this summer to offer a wide-range of courses designed to increase the proficiency of Industrial Education teachers. Among these are courses for the coordinators of diversified occupations, day trade instructors, practical nursing instructors, local supervisors of Trade and Industrial Education and Directors of Industrial Education Centers. Two of the nation's outstanding educators in the field of Industrial Education will serve as visiting professors.

SUMMER READING WORKSHOP

The annual Summer Reading Workshop sponsored by the School of Education will provide a reading improvement section for entering college students during the *first* session. Scores on college entrance tests indicate that a number of incoming freshmen could benefit from training in the improvement of reading rate, comprehension, and vocabulary building.

Entering college students who are interested in registering for this training, for which there is a small fee, should contact Dr. Paul Rust (Tompkins 111-A), Director of the Reading Workshop. The Workshop will meet hourly sessions on Monday, Wednesday, and Friday mornings.



FORESTRY SUMMER PROGRAM

The School of Forestry requires students in Forest Management and Wood Technology to attend a ten-week program during the summer. This program follows the Sophomore year. Students majoring in Forest Management spend the ten weeks in the School's permanent camps in the Piedmont and Mountain forests. Students in Wood Technology spend the first five weeks in a wood products practicum on the campus and the second five weeks in a woods practicum in the School's forests.

The Industrial Engineering curriculum in Furniture Manufacturing and Management requires students to attend the five-week wood products practicum on the campus following the Sophomore year.

Summer Camp (June 5-August 11)

- FOR s204 Silviculture (2)
- FOR s214 Dendrology (2)
- FOR s224 Forest Mapping (2)
- FOR s264 Protection and Utilization (2)
- FOR s274 Mensuration (2)

Wood Products Practicum (June 12-July 14)

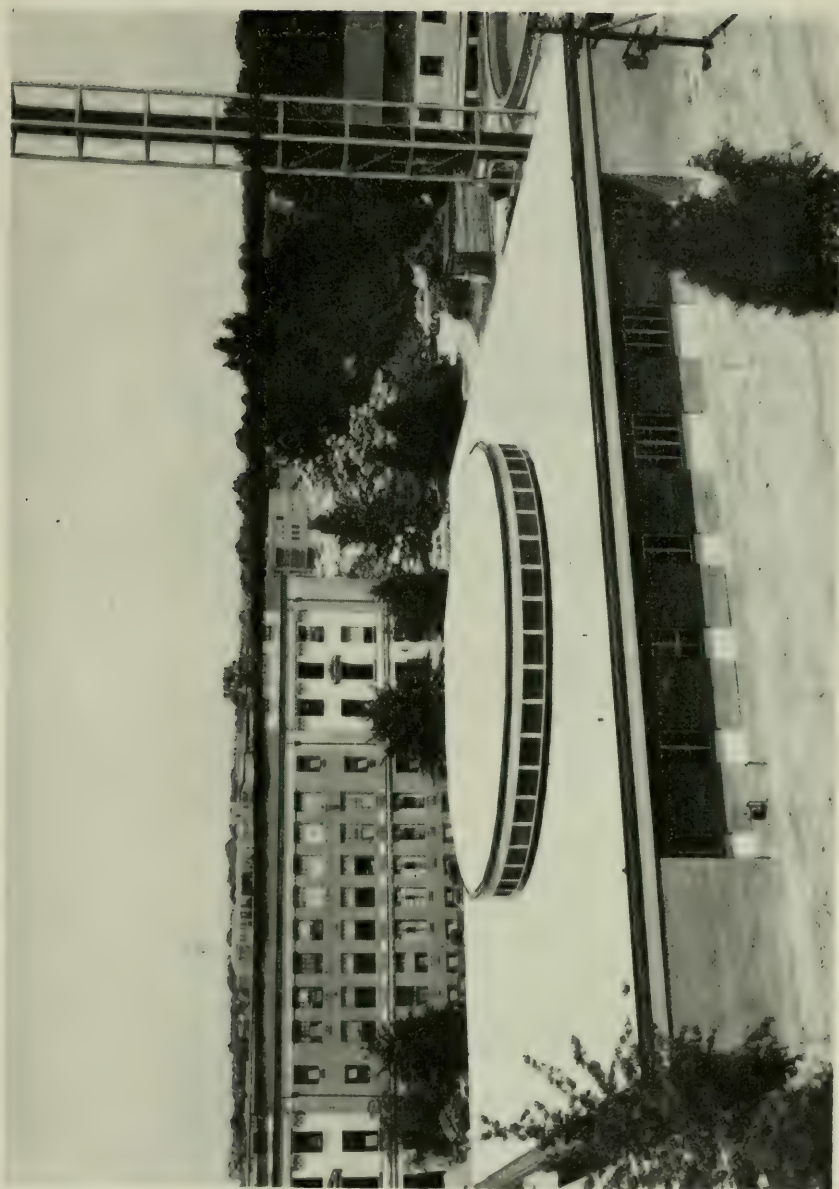
- FOR s205 Wood Machining Practicum (1)
- FOR s206 Wood Drying Practicum (1)
- FOR s207 Gluing Practicum (1)
- FOR s208 Wood Finishing Practicum (1)
- FOR s209 Plant Inspections

Woods Practicum (July 17-August 18)

- FOR s210 Mensuration (2)
- FOR s211 Logging and Milling (2)
- FOR s212 Graphic Methods (1)

Expenses

Tuition	-----\$60.00 for North Carolina students 84.00 for out-of-state students (Students in Furniture Manufacturing and Management pay one-half tuition)
Registration and Medical fee (for camp)	-----\$ 6.00



Burlington Nuclear Reactor Building

Registration fee for Practicum	\$11.00
Maintenance and Supply fee	20.00
Board (estimated for periods in camp)	9.00 (per week)

AGRICULTURAL EXTENSION

JUNE 26-JULY 14

North Carolina State College offers a special three-week training program for Extension workers. The program, established at the request of the Extension workers, is designed to give them an opportunity to pursue courses of study that will improve their ability in their chosen fields of endeavor.

Extension workers in agriculture and home economics participating in this program are enrolled in the School of Agriculture. A certificate of achievement is awarded each student completing two subjects with a grade of B or better.

Each person participating in the program will have an advisory committee to help select subjects and assist with other student problems. The College Library and the various departmental libraries are available to Extension workers enrolled in the program.

Further information and application for enrollment may be obtained from F. S. Sloan, State Program Leader, North Carolina State College, Raleigh, N. C.

COURSES OFFERED

1. Courses are listed by department, IBM symbol and numerical designator.
2. Semester hour credits for each course are given in parenthesis following the name of the course. An "X" before the semester hours indicates that the course carries no college credit.
3. Classes meet daily, Monday through Friday, except where specified to the contrary.
4. The symbols "LR" and "LB" before the clock hours refer to Lecture-Recitation and Laboratory hours, respectively.
5. Courses numbered from 1 through 100, are preparatory courses carrying no college credit; courses in the 100, 200, 300 and 400 series are primarily designed for undergraduates; courses in the 500 series for graduates and advanced undergraduates, and courses in the 600 series for graduates only.

AGRICULTURAL ECONOMICS

~~AGC 431 Agricultural Price Analysis (3)~~ *4/27 Bulletin No. 106*
1st session. LR 10:20-11:30 Mr. Pierce

AGC 523 Planning Farm & Area Adjustment (3) "
1st session. LR 10:20-11:30 4 3-5 TT Messrs. Coutu or Pierce

AGC 621 Research in Agricultural Economics (1-6)

Both sessions. Hours arranged

AGC 641 Econ. of Ag. & Sup. & Mkt. Interdependency Staff (3)
Both sessions. Hours arranged Bulletin No. 106

AGRICULTURAL ENGINEERING

AGE 411 Farm Power and Machinery (3)

1st session. Hours arranged

Mr. Ezra L. Howell

ANIMAL INDUSTRY

AI 507 Topical Problems in Animal Industry (Max. 6)

Both sessions. Hours arranged

Staff

AI 600 Research in Animal Industry (arranged)

Both sessions. Hours arranged

Staff

BOTANY AND BACTERIOLOGY

BO 640 Special Problems in Bacteriology (arranged)

Both sessions. Hours arranged

Staff

BO 641 Research in Bacteriology (arranged)

Both sessions. Hours arranged

Staff

BO 651 Research in Botany (arranged)

Both sessions. Hours arranged

Staff

CHEMICAL ENGINEERING

CHE 205 Chemical Process Principles I (4)

1st session. LR 8:00-10:10

Staff

CHE 311 Introductory Chemical Engineering (4)

1st session. LR 8:00-10:10 LB arranged

Staff

CHE 470 Chemical Engineering Projects (2)

Both sessions. LB only. Hours arranged

Staff

CHE 570 Chemical Engineering Projects (1-3)

Both sessions. Hours arranged

Staff

CHE 680 Chemical Engineering Research (1-9)

Both sessions. Hours arranged

Staff

CHEMISTRY

CH 101 General Inorganic Chemistry (4)

Both sessions. LR 7:30-9:00 LB 1:40-5:50 WF

Staff

- CH 103 General and Qualitative Chemistry (4)
1st session. LR 7:30-9:00 or 10:20-11:50
 LB 1:40-5:50 MW or MF Staff
2nd session. LR 7:30-9:00 LB 1:40-5:50 MW or MF Staff
- CH 103L Semimicro Qualitative Analysis (1) - *Sec 62 7/103* Staff
Both sessions. LB 1:40-5:50 MW or MF Staff
- CH 104 General and Qualitative Analysis (4)
1st session. LR 7:30-9:00 LB 1:40-5:50 MT or WF Staff
 CH 104L Semimicro Qualitative Analysis Lab (1) Staff
1st session. LB 1:40-5:50 MT or WF Staff
- CH 203 General and Organic Chemistry (4)
Both sessions. LR 10:20-11:50 LB 1:40-5:50 WF Staff
- CH 211 Quantitative Analysis (4)
1st session. LR 7:30-8:30 LB 1:40-5:50 MTWT Staff
- CH 212 Quantitative Analysis (4)
2nd session. LR 7:30-8:30 LB 1:40-5:50 MTWT Staff
- CH 215 Quantitative Analysis (4)
1st session. LR 10:20-11:50 LB 1:40-5:50 TT Staff
- CH 342 Physical Chemistry (3)
1st session. LR 8:00-9:30 Mr. Coots
- CH 421 Organic Chemistry (5)
1st session. LR 7:30-9:00 LB 1:40-5:50 MTWT Staff
- CH 422 Organic Chemistry (5)
2nd session. LR 7:30-9:00 LB 1:40-5:50 MTWT Staff
- CH 451 Introductory Biochemistry (3)
1st session. LR 9:10-10:10 LB 1:40-5:50 TT Staff
- CH 532 Physical Chemistry (3)
1st session. LR 8:00-9:30 Mr. Sutton
- CH 631 Chemical Research (arranged)
Both sessions. Hours arranged Graduate Staff
- CH 425 Organic Chemistry 3cr 1st SS*
CH 426 " " CIVIL ENGINEERING 300 2nd SS
- CE 202 Surveying I (3)
1st session. LR 8:00-9:00 LB 1:30-5:00 TT Staff
- CE 324 Structural Analysis I (3)
1st session. LR 8:00-9:00 LB 1:30-5:00 MTh Staff
- CE 382 Hydraulics (3)
1st session. LR 10:20-11:50 Staff

DAIRY MANUFACTURING

- DM 604 Topical Problems in Dairy Manufacturing (Max. 6)
Both sessions. Hours arranged Staff
- DM 605 Research in Dairy Manufacturing (arranged)
Both sessions. Hours arranged Staff

DESIGN

- DN 102 Design II (3)
1st session. LB 1:40-5:50 MTWTF } *9 weeks* Mr. Baron
- DN 112 Descriptive Drawing II (2)
1st session. LB 1:40-4:50 MWF Mr. Baron
- DN 212 Descriptive Drawing IV (2)
1st session. LB 1:40-4:50 MWF Mr. Baron

ECONOMICS

- EC 201 Economics (3)
1st session. LR 10:20-11:50 Mr. C. S. Shen
- EC 202 Economics (3)
2nd session. LR 8:00-9:30 Mr. Cleon Harrell

- EC 205 The Economics Process (3)
1st session. LR 8:00-9:30 Messrs. C. S. Shen and W. A. Walter
2nd Session. LR 10:20-11:50 O. G. Thompson
- EC 312 Accounting for Engineers (3)
Both sessions. 8:00-9:30 Messrs. O. G. Thompson & C. B. Schulenberger
- EC 401 Principles of Accounting (3)
1st session. LR 10:20-11:50 LB arranged Mr. C. B. Schulenberger
- EC 407 Business Law I (3)
1st session. LR 7:30-9:00 Miss Alice Hunt
- EC 410 Industry Studies (3)
1st session. LR 10:20-11:50 Mr. W. A. Walter
- EC 425 Industrial Management (3)
1st session. LR 7:30-9:00 Mr. T. W. Wood
- EC 426 Personnel Management (3)
2nd session. LR 7:30-9:00 *Lab 114-3:40* Mr. A. J. Bartley
- EC 431 Labor Problems (3)
1st session. LR 10:20-11:50 Mr. T. W. Wood
- EC 432 Industrial Relations (3)
2nd session. LR 10:20-11:50 Mr. A. J. Bartley
- EC 555 Linear Programming (3)
2nd session. LR 10:20-11:50 Mr. Cleon Harrell

EDUCATION

- ED 100 Introduction to Industrial Education (2)
1st session. LR 8:00-10:00 Mr. Ivan Valentine
- ED 308 Visual Aids (2)
1st and 2nd sessions. LR 12:30-2:00 *MW* Mr. J. R. Clary
 LB 2:00-4:00 MW or TTh
- ED 344 Secondary Education (2) *→ 2nd ss 9:10-10:10*
1st & 2nd sessions. LR 10:20-11:50 Mr. J. R. Clary
- ED 410 Driver Education (3)
1st & 2nd sessions. LR 8:00-9:30 Mr. Albert Crawford
- ED 420 Principles of Guidance (2)
1st session. LR 8:00-9:00 Staff
- ED 502 Analysis of Reading Abilities (3)
1st session. LR 10:20-11:50 Mr. Paul Rust
- ED 503 Improvement of Reading Abilities (3)
1st session. LR 8:00-9:30 Mr. Paul Rust
- ED 521 Organization of Related Study Materials (2)
1st session. LR 8:00-10:00 Mr. Marcus Simpson
- ED 524 Occupational Information (3)
1st session. LR 10:20-11:50 Staff
- ED 525 Trade Analysis and Course Construction (2)
1st session. LR 8:00-10:00 Mr. D. M. Hanson
 Mr. Merle Strong
 Mrs. Ruth Boyles
- ED 526 Seminar in Industrial Education (1)
1st session. Hours arranged Mr. D. M. Hanson
- ED 527 Philosophy of Industrial Education (2)
1st session. LR 10:00-12:00 Staff
- ED 528 Principles and Practices in Diversified Occupation (2)
1st session. LR 10:00-12:00 Mr. Marcus Simpson
- ED 529 Curriculum Materials Development (3)
1st session. LR 10:00-12:00 and 1 hour as arranged Mr. Merle Strong
 Mr. D. M. Hanson
- ED 533 Organization and Administration of Guidance Services (3)
2nd session. LR 8:00-9:30 Mr. C. G. Morehead
- ~~ED 550 Special Problems in Teaching (3)
2nd session. Hours arranged Mr. C. C. Scarborough~~
- ED 563 Effective Teaching (3)
1st session. LR 10:20-11:50 Mr. C. C. Scarborough

medial reading will not be offered 31
Summer Session, Psy. Dept. 7/11/61

CCS
7/13
Sec.

(3) 1st session LR 1:00-4:00 Mr. Murbach
ED 610 Administration and Supervision of Vocational Education (2)
1st session. LR 1:00-4:00

Mr. Carl Schaefer
or Mr. Murbach
Mr. D. M. Hanson

ED 615 Introduction to Educational Research (3)

1st session. LR 8:00-9:30

Mr. C. C. Scarborough

ED 619 Seminar in Industrial Arts (1)

1st session. Hours arranged

Mr. Ivan Hostetler

ED 621 Research in Agricultural Education (3)

1st & 2nd sessions. Hours arranged

Mr. C. C. Scarborough

ED 624 Research in Industrial Arts (Max. 6)

1st & 2nd sessions. Hours arranged

Mr. Ivan Hostetler

ED 633 Techniques in Guidance and Personnel (3)

1st session. LR 8:00-9:30

Staff

ED 635 Administration and Supervision of Industrial Arts (2)

1st session. LR 10:20-11:20

Mr. Ivan Hostetler

ED 641 Field Work in Occupational Information (Max. 6)

1st & 2nd sessions. Hours arranged

Mr. R. N. Anderson

Mr. C. G. Morehead

Staff

ED 651 Research in Occupational Information and Guidance (Max. 6)

1st & 2nd sessions. Hours arranged

Mr. R. N. Anderson

Staff

ED 664 Supervision in Agricultural Education (3)

1st session. Hours arranged

Staff

ED 665 Supervising Student Teaching (3)

1st session. Hours arranged

Staff

ELECTRICAL ENGINEERING

EE 202 Elementary Circuits and Fields (4)

Staff

Offered only in a 12-week sequence. The course counts for 2 semester hours in calculating loads for each session. Students should register for the complete course at registration for the first session, noting the 12-week sequence on their rosters.

Both sessions in sequence. LR 9:10-10:10 or 10:20-11:20

LB 1:00-3:00 MW or MTh or TTh

Note: 13 laboratory meetings for each section.

EE 650 Electrical Engineering Research (arranged)

Both sessions. Hours arranged

Staff

ENGINEERING MECHANICS

EM 311 Mechanics I (Statics) (3)

1st & 2nd sessions. LR 8:00-9:30 or
10:20-11:50

Mr. H. F. Brinson
and Staff

EM 312 Mechanics II (Dynamics) (3)

1st & 2nd sessions. LR 8:00-9:30 or
10:20-11:50

Mr. J. W. Reece
and Staff

EM 321 Strength of Materials (3)

1st & 2nd sessions. LR 8:00-9:30 or
10:20-11:50

Mr. R. A. Douglas
and Staff

EM 430 Fluid Mechanics (2)

1st session. LR 8:00-9:30

Staff

EM 605 Research in Strength of Materials (3)

1st & 2nd sessions. Hours arranged

Mr. A. Mitchell

ENGLISH

ENG 100 English Refresher (x3)

1st session. LR 8:00-9:30 or 10:20-11:50

2nd session. LR 8:00-9:30

Messrs. Martin and Porter

Mr. R. B. White

- ENG 111 Freshman Composition (3)
1st and 2nd sessions. LR 8:00-9:30
 LR 10:20-11:50 Messrs. Easley and Koonce
 Porter and Smith
- ENG 112 Composition (3)
1st and 2nd sessions. LR 8:00-9:30 or 10:20-11:50 Messrs. Eldridge, Swain,
 Wynne, Champion and
 Kincheloe
- ENG 205 Reading for Discovery (3)
1st and 2nd sessions. LR 8:00-9:30 or 10:20-11:50 Messrs. Martin, Williams,
 Champion, Smith and
 White
- ENG 211 Business Communications (3)
1st session. LR 8:00-9:30 Mr. Davis
- ENG 231 Basic Speaking Skills (3)
1st and 2nd sessions. LR 8:00-9:30 or 10:20-11:50 Messrs. Swain,
 Wynne, and Fountain
- ENG 321 Scientific Writing (3)
1st session. LR 10:20-11:50 Mr. Davis
- ENG 361 Backgrounds of English Civilization I (3)
1st session. LR 10:20-11:50 Mr. Easley
- ENG 362 Backgrounds of English Civilization II (3)
2nd session. LR 8:00-9:30 Mr. Koonce
- ENG 366 American Mind II (3)
1st session. LR 8:00-9:30 Mr. Eldridge
2nd session. LR 10:20-11:50 Mr. Kincheloe
- ENG 485 Shakespeare (3)
1st session. LR 8:00-9:30 Mr. Williams

ENTOMOLOGY

- ENT 590 Special Problems (arranged)
Both sessions. Hours arranged Staff
- ENT 690 Research
Both sessions. Hours arranged Staff

EXPERIMENTAL STATISTICS

- ST 515 Experimental Statistics I (3)
1st session. LR 1:40-3:10 Mr. J. O. Rawlings
- ST 516 Experimental Statistics II (3)
2nd session. LR 1:40-3:10 Staff
- ST 631 Theory of Sampling Applied to Survey Design (3)
1st session. LR 8:00-9:30 Mr. J. C. Koop
- ST 661 Special Problems; Research (3)
 and/or *Both sessions.* Hours arranged Staff
 691

FIELD CROPS

- FC 521 Special Problems (arranged)
Both sessions. Hours arranged Graduate Staff
- FC 542 Plant Breeding Field Procedures (2)
Both sessions. Hours arranged Graduate Staff
- FC 541 Research (arranged)
Both sessions. Hours arranged Graduate Staff

GENETICS

- G.N 501 General Genetics (4)
1st session. LR 8:00-11:00 Messrs. C. H. Bostian, L. E. Mettler,
 Ben W. Smith
 L.B 2:30-3:30 Mr. C. H. Bostian

GN 502 Special Topics in Genetics (2)

1st session. LR

2:00-4:00 TWThF

Messrs. C. C. Cockerman, M. Demerec.

2:30-4:00

D. S. Grosch, C. N. Herndon, J. E. Legates.

8:00-9:30

M. M. Rhoades, W. J. Schull, H. F. Robinson.

10:00-11:30

S. G. Stephens, Maurice Whittinghill.

GN 661 Research (arranged)

Both sessions. Hours arranged

Staff

GN 671 Special problems in Genetics (1-3)

Both sessions. Hours arranged

Staff

HISTORY AND POLITICAL SCIENCE

HI 205 Modern Western World (3)

2nd session. LR 8:00-9:30

Mr. M. S. Downs

HI 225 Modern Europe (3)

1st session. LR 10:20-11:50

Mr. M. L. Brown, Jr.

HI 226 Modern Europe (3)

2nd session. LR 10:20-11:50

Mr. M. S. Downs

HI 251 United States through Reconstruction (3)

1st session. LR 8:00-9:30

Mr. C. F. Kolb

HI 252 United States Since Reconstruction (3)

2nd session. LR 8:00-9:30

Mr. B. F. Beers

HI 261 United States in Western Civilization (3)

1st session. LR 10:20-11:50

Mr. L. W. Seegers

HI 401 Russian History (3)

1st session. LR 8:00-9:30

Mr. M. L. Brown, Jr.

HI 402 Asia and the West (3)

2nd session. LR 10:20-11:50

Mr. B. F. Beers

HI 412 Recent United States (3)

1st session. LR 10:20-11:50

Mr. C. F. Kolb

PS 201 American Governmental System (3)

1st session. LR 8:00-9:30

Mr. A. Holtzman

PS 401 American Parties and Pressure Groups (3)

1st session. LR 10:20-11:50

Mr. A. Holtzman

HORTICULTURE

HRT 301 Plant Propagation (3)

1st session. LR 8:00-9:00

LB 1:40-4:20 MW

Mr. G. O. Randall

HRT 342 Landscape Gardening (3)

1st session. LR 10:20-11:20

Mr. G. O. Randall

LB 1:40-4:20 TTh

HRT 641 Research (arranged)

1st session. Hours arranged

Mr. C. H. Miller

Mr. C. L. McCombs

INDUSTRIAL ARTS

IA 104 Drafting II (3)

2nd session. LR 7:30-10:10 M

LB 7:30-10:10 TWTF

Mr. R. T. Troxler

IA 107 Woods I (3)

1st session. LR 10:20-1:00 M

LB 10:20-1:00 TWTF

Mr. C. A. Moeller

IA 108 Woods II (3)

2nd session. LR 10:20-1:00 M

LB 10:20-1:00 TWTF

Mr. R. T. Troxler

IA 206 Metal Processing I (3)

1st session. LR 7:30-10:10 M

LB 7:30-10:10 TWTF

Mr. C. A. Moeller

IA 207 Metal Processing II (3)

2nd session. LR 7:30-10:10 M

LB 7:30-10:10 TWTF

Mr. Talmage B. Young

IA 307 Basic Electricity (3)	
1st session. LR 10:20-1:00 M	
LB 10:20-1:00 TWTF	Mr. Talmage B. Young
IA 308 Basic Electronics (3)	
2nd session. LR 10:20-1:00 M	
LB 10:20-1:00 TWTF	Mr. Talmage B. Young
IA 315 General Ceramics (3)	
1st session. LR 7:30-10:10 M	
LB 7:30-10:10 TWTF	Mr. Ivan Hostetler
IA 480 Modern Industries	
1st session. LR 8:00-9:30	Mr. Talmage B. Young
IA 570 Laboratory Problems in Industrial Arts (Max. 6)	
Both sessions. Hours arranged	Staff
IA 575 Special Problems in Industrial Arts (Max. 6)	
Both sessions. Hours arranged	Staff

INDUSTRIAL ENGINEERING

IE 201 Industrial Engineering I (3)	
1st session. LR 10:20-11:30	Mr. R. W. Llewellyn
IE 202 Industrial Engineering (3)	
2nd session. LR 10:20-11:20 LB 1:40-4:50 MW	Mr. R. W. Llewellyn
IE 217 Machine Tools (1)	
1st session. LB 3:30-5:10 MWF	Mr. Biman Das
IE 651 Special Studies in Industrial Engineering (arranged)	
1st session. Hours arranged	Mr. C. A. Anderson
IE 691 Industrial Engineering Research (arranged)	
1st session. Hours arranged	Mr. C. A. Anderson

MATHEMATICS

MA 1 Plane Geometry (x3)	
Both sessions. LR 10:20-11:50	Staff
MA 2 Review Algebra (x4)	
Both sessions. LR 8:00-10:10	Staff
MA 4 Solid Geometry (x2)	
Both sessions. LR 10:20-11:20	Staff
MA 101 Algebra and Trigonometry (5)	
1st session. LR 7:30-10:10 or 10:20-1:00	Staff
2nd session. LR 7:30-10:10	Staff
MA 102 Analytic Geometry and Calculus I (4)	
Both sessions. LR 8:00-10:10 or 10:20-12:30	Staff
MA 111 Algebra and Trigonometry (4)	
1st session. LR 10:20-12:30	Staff
MA 112 Analytic Geometry and Calculus A (4)	
1st session. LR 10:20-12:30	Staff
MA 122 Mathematics of Finance and Elementary Statistics (4)	
Both sessions. LR 8:00-10:10	Staff
MA 201 Analytic Geometry and Calculus II (4)	
1st session. LR 8:00-10:10 or 10:20-12:30	
2nd session. LR 10:20-12:30	Staff
MA 202 Analytic Geometry and Calculus III (4)	
Both sessions. LR 8:00-10:10 or 10:20-12:30	Staff
MA 301 Differential Equations I (3)	
Both sessions. LR 8:00-9:30 or 10:20-11:50	Staff
MA 302 Theory of Equations (3)	
2nd session. LR 10:20-11:50	Staff
MA 403 Fundamental Concepts of Algebra (3)	
1st session. LR 10:20-11:50	Staff
MA 405 Introduction to Determinants and Matrices (3)	
1st session. LR 8:00-9:30	
2nd session. LR 10:20-11:50	Staff

MA 411 Introduction to Applied Mathematics (3)	
1st session. LR 10:20-11:50	Staff
MA 433 History of Mathematics (3)	
1st session. LR 10:20-11:50	Staff
MA 501 Numerical Analysis I (3)	
2nd session. LR 8:00-9:30	Staff
MA 511 Advanced Calculus I (3)	
1st session. LR 7:30-9:00 or 10:20-11:50	Staff
MA 512 Advanced Calculus II (3)	
2nd session. LR 7:30-9:00 10:20-11:50	Staff
MA 514 Boundary Value Problems (3)	
1st session. LR 10:20-11:50	Staff
*MA 517 Introduction to Topology (1½)	
1st Both sessions. LR 10:20-11:20 MTWT	Mr. C. Kassimatis
MA 532 Differential Equations II (3)	
2nd session. LR 10:20-11:50	Staff
MA 543 Elementary Complex Variable Theory (3)	
1st session. LR 10:20-11:50	Staff
*MA 608 Integral Equations (1½) — 2nd SS	
Both sessions. LR 9:10-10:10 MTWT 12-1:00	Mr. L. S. Winton
*MA 622 Vector Spaces and Matrices (1½)	
Both sessions. LR 8:00-9:00 MTWT	Mr. H. M. Nahikian
* Courses offered 4 days a week for 12 weeks for 3 hours total credit.	

MECHANICAL ENGINEERING

ME 101 Engineering Graphics I (2)	
1st session. LB 8:00-10:10	Staff
2nd session. LB 10:20-12:30	Staff
ME 102 Engineering Graphics II (2)	
1st session. LB 10:20-12:30	Staff
2nd session. LB 8:00-10:10	Staff
ME 301 Engineering Thermodynamics I (3)	
1st session. LR 8:00-9:30 or 10:20-11:50	Staff
ME 302 Engineering Thermodynamics II (3)	
2nd session. LR 8:00-9:30	Staff
ME 303 Engineering Thermodynamics III (3)	
2nd session. LR 10:20-11:50	Staff
ME 305 Mechanical Engineering Laboratory I (1)	
1st session. LB 1:40-5:50 MW	Staff
ME 306 Mechanical Engineering Laboratory II (1)	
2nd session. LB 1:40-5:50 MW	Staff
ME 311 Kinematics (3)	
1st session. LR 10:20-11:50	Staff
ME 312 Dynamic Analysis (3)	
2nd session. LR 10:20-11:50	Staff
ME 645 Mechanical Engineering Research (0-6)	
Both sessions. Hours arranged	Staff

MINERAL INDUSTRIES

MIM 421 Metallurgy I (2)	
1st session. Hours arranged	Mr. L. E. Poteat
MIM 423 Metallurgy Laboratory (1)	
1st session. Hours arranged	Staff
MIC 507 Advanced Ceramic Experiments (3)	
Both sessions. Hours arranged	Staff
MIC 540 Glass Technology (3)	
1st session. Hours arranged	Staff
MIC 650 Ceramic Research (1-9)	
Both sessions. Hours arranged	Staff

MODERN LANGUAGES

- ML 102 French Grammar and Prose Reading (3)
1st session. LR 10:20-11:50 Mr. S. T. Ballenger
- ML 103 Elementary German (3)
1st session. LR 8:00-9:20 or 10:20-11:50 Mr. S. E. Simonsen
- ML 104 German Grammar and Prose Reading (3)
2nd session. LR 8:00-9:30 or 10:20-11:50 Mr. H. L. Titus
- ML 307 Technical Spanish (3)
1st session. LR 8:00-9:30 Mr. S. T. Ballenger
- ML 308 Technical Spanish (3)
2nd session. LR 8:00-9:30 Mr. G. W. Poland
- ML 401 Introduction to Scientific French (3)
1st session. LR 10:20-11:50 Mr. F. J. Allred
- ML 402 Introduction to Scientific French (3)
2nd session. LR 10:20-11:50 Mr. G. W. Poland
- ML 503 German Grammar for Grads (3)
1st session. LR 8:00-9:30 or 10:20-11:50 Mr. E. J. Allred and Mrs. Ruth B. Hall
2nd session. LR 8:00-9:30 Mr. F. J. Allred
- ML 504 Scientific German (3)
1st session. LR 8:00-9:30 Mrs. Hall
2nd session. LR 10:20-11:50 Mr. Allred

PHILOSOPHY AND RELIGION

- PHI 201 Logic (3)
1st session. LR 10:20-11:50 Staff
2nd session. LR 10:20-11:50 or 12:00-1:30 Mr. Cleveland J. Bradner, Jr.
- PHI 205 Problems and Types of Philosophy (3)
2nd session. LR 8:00-9:30 or 10:20-11:50 Mr. W. Curtis Fitzgerald
- PHI 305 Philosophy of Religion (3)
1st session. LR 8:00-9:30 Mr. W. Curtis Fitzgerald
- PHI 306 Philosophy of Art (3)
1st session. LR 8:00-9:30 Mr. Paul A. Bredenberg
- PHI 309 Marriage and Family Living (3)
1st session. LR 8:00-9:30 or 10:20-11:50 Messrs. W. N. Hicks and J. L. Middleton
2nd session. LR 8:00-9:30 Mr. W. L. Highfill
- PHI 395 Philosophical Analysis (3)
1st session. LR 10:20-11:50 Mr. Paul A. Bredenberg
- REL 403 Religions of the World (3)
2nd session. LR 10:20-11:50 Mr. W. L. Highfill
- PHI 405 Foundations of Science (3)
1st session. LR 8:00-9:30 Staff
2nd session. LR 8:00-9:30 or 10:20-11:50 Mr. James L. Cole

PHYSICAL EDUCATION

- Mixed Physical Education (Golf) (1)
1st session. 9:10-10:10 or 10:20-11:20 Mr. Arthur Hoch
2nd session. 9:10-10:10 or 1:00-2:00 Mr. Nelvin Cooper
- Mixed Physical Education (Angling) (1)
1st session. 11:30-12:30 Mr. Arthur Hoch
2nd session. 10:20-11:20 or 2:50-3:50 Mr. Wm. E. Smith
- Mixed Physical Education (Tennis) (1)
1st session. 10:20-11:20 Mr. Michael Shea
2nd session. 10:20-11:20 Mr. Nelvin Cooper
- Mixed Physical Education (Softball) (1)
1st session. 12:00-1:00 Mr. Michael Shea

Mixed Physical Education (Badminton) (1)

1st session. 1:00-2:00

2nd session. 11:30-12:30

Mixed Physical Education (Volleyball) (1)

1st session. 1:40-2:40

2nd session. 12:00-1:00

Mixed Physical Education (Swimming) (1)

1st session. 2:50-3:50

2nd session. 1:40-2:40

Mr. Arthur Hoch
Mr. Nelvin Cooper

Mr. Michael Shea
Mr. Wm. E. Smith

Mr. Michael Shea
Mr. Wm. E. Smith

PHYSICS

PY 201 General Physics (5)

1st session. LR 8:00-10:10 LB 1:40-3:50 TTh

2nd session. LR 10:20-12:30 LB 1:40-3:50 MW

Staff

Staff

PY 202 General Physics (5)

Both sessions. LR 8:00-10:10 or 10:20-12:30

LB 1:40-3:50 MW or 1:40-3:50 TTh

Staff

Staff

PY 211 General Physics (4)

1st session. LR 8:00-9:30 or 10:20-11:50

LB 1:40-3:50 MW or 1:40-3:50 TTh

Staff

Staff

Staff

2nd session. LR 8:00-9:30 LB 1:40-3:50 TTh

PY 212 General Physics (4)

Both sessions. LR 8:00-9:30 LB 1:40-3:50 MW or 1:40-3:50 TTh

Staff

PY 221 College Physics (5)

Both sessions. LR 10:20-1:00

Staff

PY 407 Introduction to Modern Physics (3)

Both sessions. LR 8:00-9:30

Staff

PY 410 Nuclear Physics I (4)

1st session. LR 10:20-11:50 LB 1:40-3:50 TTh

Staff

PY 510 Nuclear Physics II (4)

1st session. LR 7:30-9:00 LB arranged

Staff

PY 690 Research (1-6)

Both sessions. Hours arranged

Staff

PLANT PATHOLOGY

P 615 Research in Plant Pathology (arranged)

Both sessions. Hours arranged

Staff

POLITICAL SCIENCE (See History and Political Science)

POULTRY SCIENCE

PO 201 Poultry Production (4)

1st session. LR 10:20-11:50 LB 1:40-4:20 TTh

Mr. T. T. Brown

PO 611 Poultry Research (arranged)

1st session. Hours arranged

Staff

PSYCHOLOGY

PSY 200 Introduction to Psychology (3)

1st session. LR 8:00-9:30 or 10:20-11:50

Mr. Cook

2nd session. LR 8:00-9:30 or 10:20-11:50

Staff

PSY 302 Psychology of Personality and Adjustment (3)

1st session. LR 1:40-3:10

Staff

PSY 304 Educational Psychology (3)

1st session. LR 8:00-9:30

Mr. Barkley

2nd session. LR 10:20-11:50

Staff

PSY 337 Industrial Psychology I (3)

1st session. LR 8:00-9:30

Mr. Drewes

2nd session. LR 10:20-11:50

Staff

Remedial Reading will not be
taught 2nd Session. Dr. Rust 7/11/61

PSY 475 Child Psychology (3)	
2nd session. Hours arranged	Staff
PSY 476 Psychology of Adolescence (2)	
Both sessions. I.R. 10:20-11:20	Mr. Johnson
PSY 504 Advanced Educational Psychology (3)	
2nd session. Hours arranged	Staff
PSY 535 Tests and Measurements (3)	
1st session. I.R. 8:00-9:30	Mr. Johnson
PSY 550 Mental Hygiene in Teaching (3)	
1st session. I.R. 10:20-11:50	Mr. Barkley
PSY 570 Intelligence and Personality: Theory and Measurement I (3)	
1st session. I.R. 10:20-11:50	Mr. Corter
PSY 571 Intelligence and Personality: Theory and Measurement II (3)	
1st session. Hours arranged	Mr. Corter
PSY 576 Developmental Psychology (3)	
2nd session. Hours arranged	Mr. Johnson
PSY 609 Psychological Clinic Practicum (3)	
1st session. Hours arranged	Mr. Corter
PSY 610 Theories of Learning (3)	
1st session. Hours arranged	Mr. Newman
PSY 612 Seminar in Industrial Psychology (3)	
1st session. Hours arranged	Mr. Miller
PSY 613 Research in Psychology (3)	
Both sessions. Hours arranged	Staff
PSY 672 Intelligence and Personality: Theory and Measurement III (3)	
1st session. Hours arranged	Mr. Corter

RECREATION AND PARK ADMINISTRATION

REC 152 Introduction to Recreation (3)	
Both sessions. 8:00-9:30	Mr. T. I. Hines
REC 203 Individual Corrective Physical Education (2)	Mr. Albert Crawford
1st session. I.R. 10:20-11:20	
REC 204 Methods and Materials of Health Education (2)	
1st session. 8:00-9:00	Mr. W. E. Smith
REC 205 Methods and Materials of Physical Education (2)	
1st session. 9:10-10:10	Mr. W. E. Smith
REC 253 Principles of Physical Education (3)	
Both sessions. I.R. 10:20-11:50	Mr. T. I. Hines
REC 301 Organization and Administration of Physical Education (2)	
1st session. I.R. 10:20-11:20	Mr. W. E. Smith
2nd session. I.R. 8:00-9:30 MWF LB Hours arranged	A. C. Crawford
REC 353 Camp Organization and Leadership (3)	
2nd session. I.R. 9:10-10:10 LB Hours arranged	Mr. C. C. Stott
REC 470* Supervised Practice (6)	
1st session. Hours arranged	Mr. L. L. Miller
* 9 weeks session.	

RELIGION (See Philosophy and Religion)

RURAL SOCIOLOGY

RS 642 Research in Rural Sociology (arranged)	
1st session. Hours arranged	Staff

SOCIAL STUDIES

SS 301 Contemporary Civilization (3)	
Both sessions. I.R. 8:00-9:30 or 10:20-11:50	Staff

SS 302 Contemporary Civilization (3)	
Both sessions. LR 8:00-9:30 or 10:20-11:50	Staff
SS 491 Contemporary Issues (3)	
Both sessions. LR 8:00-9:30 or 10:20-11:50	Staff
SS 492 Contemporary Issues (3)	
Both sessions. LR 8:00-9:30 or 10:20-11:50	Staff

SOCIOLOGY AND ANTHROPOLOGY

SOC 202 Principles of Sociology (3)	
1st session. LR 8:00-9:30 or 10:20-11:50	Mr. Herbert Collins
SOC 301 Human Behavior (3)	
1st session. LR 8:00-9:30 or 10:20-11:50	Mr. Horace Rawls
SOC 303 Current Social Problems (3)	
1st session. LR 8:00-9:30	Mr. Sanford Winston
2nd session. LR 12:00-1:30	Mr. Elmer Johnson
SOC 304 Contemporary Family Life (3)	
1st session. LR 10:20-11:50	Mr. Sanford Winston
2nd session. LR 8:00-9:30	Mr. John Tomlin
SOC 305 Race Relations (3)	
1st session. LR 12:00-1:30	Mr. Herbert Collins
SOC 306 Criminology (3)	
2nd session. LR 10:20-11:50	Mr. John Tomlin
SOC 401 Human Relations in Industrial Society (3)	
2nd session. LR 8:00-9:30 or 10:20-11:50	Mr. Elmer Johnson

SOILS

SOI 570 Special Problems (arranged)	
Both sessions. Hours arranged	Staff
SOI 690 Research (arranged)	
Both sessions. Hours arranged	Staff

TEXTILES

TX 261 Fabric Structure (3)	
1st session. LR 7:30-8:30 LB 1:40-4:20 MW	Mr. E. B. Berry
TX 281 Fiber Quality (3)	
1st session. LR 9:10-10:10 LB 1:40-4:20 TTh	Mr. J. E. Pardue
TX 283 Fundamentals of Textiles (2)	
1st session. LR 7:30-10:10 W only LB 1:40-4:20 MW	Mr. W. E. Moser
TX 303 Fiber and Yarn Technology (4)	
1st session. LR 7:30-9:00 LB 1:40-4:20 MW	Mr. L. T. Lassiter
TX 304 Fiber and Yarn Technology (4)	
2nd session. LR 10:20-11:50 LB 1:40-4:20 TTh	Mr. W. C. Stuckey
TX 327 Textile Testing (4)	
2nd session. LR 10:20-11:50 LB 1:40-4:20 MW	Mr. L. T. Lassiter
TX 365 Fabric Technology (4)	
1st session. LR 12:00-1:30 LB 1:40-4:20 TTh	Mr. E. B. Berry
TX 366 Fabric Technology (4)	
2nd session. LR 7:30-9:00 LB 1:40-4:20 TTh	Mr. W. E. Moser
TX 430 Continuous Filament Yarns (3)	
1st session. LR 8:00-9:00 LB 1:40-4:20 MW	Mr. R. E. Wiggins
TX 436 Staple Fiber Processing (3)	
1st session. LR 8:00-9:00 LB 10:20-1:00 MW	Mr. J. E. Pardue
TX 442 Knitted Fabrics (3)	
1st session. LR 7:30-8:30 LB 10:20-1:00 TTh	Mr. H. M. Middleton
TX 483 Textile Cost Methods (2)	
1st session. LR 9:10-10:10	Mr. H. M. Middleton
TX 601 Yarn Manufacture (3 arranged)	
1st session. Hours arranged	Mr. E. B. Grover
TX 602 Yarn Manufacture (3 arranged)	
2nd session. Hours arranged	Mr. E. B. Grover
TX 621 Textile Testing III (2 arranged)	
1st session. Hours arranged	Mr. D. S. Hamby

- TX 681 Textile Research (arranged)
Both sessions. Hours arranged
 TC 307 Textile Chemistry (4)
1st session. LR 12:00-1:30 LB 1:40-4:20 MW
 TC 421 Fabric Finishing I (2)
1st session. LR 9:10-10:10

Graduate Staff
 Mr. A. C. Hayes
 Mr. A. C. Hayes

ZOOLOGY

- ZO 571 Special Studies (arranged)
Both sessions. Hours arranged
 ZO 641 Research in Zoology (arranged)
Both sessions. Hours arranged
 Thesis Preparation (arranged)
Both sessions. Hours arranged

Staff
 Staff
 Staff

**NORTH CAROLINA STATE COLLEGE
DORMITORY RENTAL OFFICE
RALEIGH**

REQUEST FOR DORMITORY ROOM RESERVATION

Full Name _____
(Last Name) (First) (Middle)

Street _____

City _____

Please reserve a room for me in the dormitory for ☐ Women
☐ Men for the six-week regular

Summer Session beginning _____ 1961.

Enclosed is full payment of \$32.00 (Rent \$30: Key Deposit \$2).

This reservation is subject to the conditions on the reverse side.

Roommate preference: _____

Signature of Applicant

Class: Fr. So. Jr. Sr. Pr. Grad.
(Circle One)

Date _____ Curriculum _____

FORM D

REQUEST FOR LINEN RENTAL SERVICE

Full Name _____
(Last Name) (First) (Middle)

College Address: Room No. _____ BRAGAW Dormitory.
(To be filled in by Dormitory Rental Office)

I wish to apply for Linen Rental Service for the six-week regular Summer Session beginning _____ 1961.

Enclosed is full payment of \$5.00.

This request is subject to the conditions on the reverse side.

Date _____
Signature of Applicant

Remittance must be made payable to NORTH CAROLINA STATE COLLEGE and be mailed to the BUSINESS OFFICE, N. C. STATE COLLEGE, RALEIGH, N. C. Remittance of Linen Rental Service may be included with check for Dormitory Room Reservation in the total amount of \$37.00.

FORM E

CONDITIONS OF DORMITORY ROOM RESERVATION

1. **FULL PAYMENT OF ROOM RENT** is required in order to reserve a dormitory room. Remittance must be made payable to **NORTH CAROLINA STATE COLLEGE** and be mailed to the **BUSINESS OFFICE, N. C. STATE COLLEGE, RALEIGH, N. C.** No room assignment will be made until payment is received.
2. **REFUND OF ROOM RENT:** If the room reservation is cancelled on or before the last day of registration for the Summer Session applied for, the rent paid will be refunded less a \$5 room reservation fee **OR** a charge of \$1 per day (whichever amount is greater) from the first day of the registration period to the date of cancellation. **AFTER** the last day for registration, **NO REFUND** will be made for any reason other than Official Withdrawal from College. In such cases, a charge of \$1 per day will be made from the first day of the registration period to the date of cancellation and the balance of the rent will be refunded. Cancellation of room reservation must be made in person or in writing to the Director of Dormitories, 4 Holladay Hall, N. C. State College, Raleigh, N. C.
3. New Students must be cleared for enrollment by the Admissions Office and Former Students must be eligible for readmission before a room may be reserved.
4. This reservation is subject to dormitory and student government regulations.

CONDITIONS OF LINEN RENTAL SERVICE

1. Initial issue of: 2 sheets, 1 pillow case, 3 bath towels.
2. Weekly exchange of linen on a designated day, on an even-exchange basis during the six-week Summer Session.
3. There will be two stations on the Campus for serving customers:
(1) **BRAGAW** Dormitory linen room; (2) College Laundry
4. Any article of linen unaccounted for at the time of weekly exchange shall be paid for by the customer at the actual cost of the article.
5. No refunds or credits will be made to the customer for those weeks he fails to avail himself of this service except that any customer Officially Withdrawing from College will be refunded for unused service at the rate of fifty cents (50¢) per week provided he turns in final issue of linen to the State College Laundry.

CUSTOMERS CONTRACTING FOR THIS SERVICE WILL UPON ARRIVAL BE ABLE TO DRAW INITIAL ISSUE OF LINEN FROM THE BRAGAW DORMITORY LINEN ROOM.

WHERE TO WRITE . . .

For general information concerning the Summer Sessions:

Office of the Summer Sessions
101 Pullen Hall
N. C. State College
Raleigh, North Carolina

For information concerning Agricultural Extension courses:

Professor Fred S. Sloan
109 Ricks Hall
N. C. State College
Raleigh, North Carolina

For information on the Counseling and Guidance Institute:

Dr. Charles G. Morehead, Director
Counseling and Guidance Institute
School of Education
P. O. Box 5125
N. C. State College
Raleigh, North Carolina

For information on the Summer Institute of Genetics for College Teachers:

Summer Institute of Genetics for College Teachers
Department of Genetics
N. C. State College
Raleigh, North Carolina

Send application for admission or re-admission to:

Kenneth D. Raab
13 Holladay Hall
N. C. State College
Raleigh, North Carolina

Send applications for dormitory reservations to:

J. S. Fulghum, Jr.
Dormitory Rental Office
4 Holladay Hall
N. C. State College
Raleigh, North Carolina



1961

Summer Sessions

NORTH CAROLINA STATE COLLEGE
